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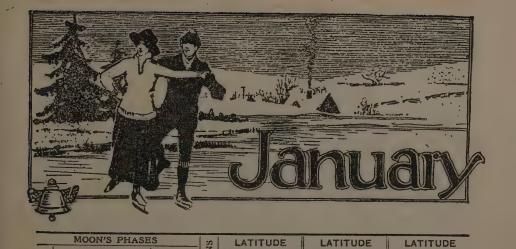
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11 S Thomas A. Edison born, 1847 12 M	10 Sa Str. Gen. Chanzy lost, 1910	1 2	7	4	5 2	26	9	13	7	I	5	28	9	12	6	491	5 4	I	9 '	7
12 M	6. Sexagesima Sunday. Luk	e 8		D	ay'	's l	Len	gth	, 10	0h. :	24i	m	-10	h. a	30ı	m	-10	h. 5	4m.	
Tu Alphonse Bertillon died, 1914 W 15 Th 16 Fr 17 Sa Chief Geronimo died, 1904 Tq. M. A. Hanna died, 1904 Tq. Sa Chief Geronimo died, 1909 Tq. Sa Chief Geronimo died, 1904 Tq. Sa Chief Geronimo die	- 10 220200 2012, 104)	2	7	3	•	-4	10	16	7	0	5	30	10	13	6	48	5 4	2 1	0 ,	4
14 W 14th. St. Valentine 15 Th 16 Fr 19 M. A. Hanna died, 1904 16 Fr 19 Coke died, 1905 17 Sa Chief Geronimo died, 1909 18 6 56 5 33 2 42 6 53 5 36 2 36 6 44 5 45 1 7 17 Sa Chief Geronimo died, 1909 18 6 55 5 35 3 42 6 52 5 37 3 36 6 42 5 47 3 11 7. Quinquagesima Sunday. Luke 18 Day's Length, 10h. 48m.—10h. 47m.—11h. 7m. 18 S	1	3	7		-		1		4 .			•		- "	1 .			٠,		•
15 Th	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		6	E8	5		1			57	5									D.
16 Fr Jay Cooke died, 1905 17 Sa Chief Geronimo died, 1909 28 6 56 5 33 2 42 6 53 5 36 2 36 6 43 5 46 2 11 7. Quinquagesima Sunday. Luke 18 Day's Length, 10h. 48m.—10h. 47m.—11h. 7m. 18 S d in Ω. Madero deposed, 1913 d 6 53 5 36 4 34 6 51 5 38 4 28 6 41 5 48 4 6 19 M d o C. Fire in Tokio, 1913 d 6 50 5 38 5 58 6 48 5 41 5 55 6 39 5 50 5 42 20 Tu d in perihellon: d in perihele control of the perihele contro			1 -	57							5				-					7
7. Quinquagesima Sunday. Luke 18 Day's Length, 10h. 48m.—10h. 47m.—11h. 7m. 18 S (in Ω. Madero deposed, 1913 16 53 536 434 651 538 428 641 548 46 652 537 519 649 539 514 640 549 456 652 537 519 649 539 514 640 549 456 650 538 558 648 541 555 639 550 542 650 538 558 648 541 555 639 550 542 649 540 845 646 542 845 646 642 545 943 644 543 946 642 545 943 644 543 946 642 545 943 644 545 943 944 944 944 944 944 944 944 944 944 944 944 944 944 944 944 944 944	1_ 3.5 = 1.1.5 = 3.5	40		56	5 3		2	42					2				5 4			•
18 S d in Ω. Madero deposed, 1913 d 6 53 5 36 4 34 6 51 5 38 4 28 6 41 5 48 4 6 6 19 M d o c fire in Tokio, 1913 d 6 52 5 37 5 19 6 49 5 39 5 14 6 40 5 49 4 56 20 Tu d in perihellon: d in perigee d 6 50 5 38 5 58 6 48 5 41 5 55 6 39 5 50 5 42 21 W 21 St. Ash Wednesday Madero killed, 1913 d 6 49 5 40 sets 6 46 5 42 sets 6 38 5 51 sets 6 46 5 42 sets 6 38 5 51 sets 7 14 6 47 5 41 7 14 6 45 5 43 7 14 6 37 5 51 7 14 6 47 5 41 7 14 6 45 5 43 7 14 6 37 5 51 7 14 6 47 5 41 7 14 6 45 5 43 7 14 6 37 5 51 7 14 6 47 5 41 7 14 6 45 5 43 7 14 6 37 5 51 7 14 6 47 5 41 7 14 6 47 5 41 7 14 6 37 5 51 7 14 6 47 5 41 7 14 6 47 5 41 7 14 6 37 5 51 7 14 6 47 5 41 7 14 6 47 5 41 7 14 6 37 5 51 7 14 6 47 5 41 7 14 6 47 5 41 7 14 6 37 5 51 7 14 6 47 5 41 7 14 6 47 5 41 7 14 6 37 5 51 7 14 6 47 5 41 7 14 6 47 5 41 7 14 6 37 5 51 7 14 6 47 5 41 7 14 6 47 5 41 7 14 6 37 5 51 7 14 6 47 5 41 7 14 6 47 5 41 7 14 6 47 5 41 7 14 6 37 5 51 7 14 6 47 5 41 7 14 6 47 5 41 7 14 6 37 5 51 7 14 6 47 5 41 7 14 6 47 5 41 7 14 6 47 5 41 7 14 6 37 5 51 7 14 7 14 6 47 5 41 7 14 6 47 7 14 6 47 7 14 6 47 7 14 6 47 7 14 6 47 7 14 6 47 7 14 6 47 7 14 6 47 7 14 6 47 7 14 6 47 7 14 6 47 7 14 6 47 7 14 6 47 7 14 6 47 7 14 7 14	17 Sa Chief Geronimo died, 1909	-	10	55	5	35	1 3	42	6	52	15	37	3	36	6	42	5 4	7	3 1	I
19 M	7. Quinquagesima Sunday. 1	uke	18		Da	y'	s Le	ng	th,	10h	. 4	3m	7	10h	. 4	7m.	— 1	1h.	7m.	,
Tu d'in perihellon: (in perigee 21 W 21st. Ash Wednesday Madero killed, 1913 6 6 9 5 40 sets 6 48 5 41 5 55 6 39 5 50 5 42 22 Th 22 Th 23 Fr Italy annexed Tripoli, 1912 6 46 5 42 8 31 6 44 5 44 8 29 6 36 5 52 8 24 24 S2 6 9 6. St. Matthias 6 44 5 43 9 46 6 42 5 45 9 43 6 34 5 53 9 32 8. 1st Sunday in Lent. Matt. 4 Day's Length, 11h. 2m.—11h. 6m.—11h. 21m. 25 S	a la			53		36		34	II .	51	5	38	4	28	6	41	5 4	81		
21 W 21st. Ash Wednesday							5			-					1					
22 Th Madero killed, 1913	The parties of the parties									_										
23 Fr Italy annexed Tripoli, 1912 6 46 5 42 8 31 6 44 5 44 8 29 6 36 5 52 8 24 24 Sa 6 9 6 St. Matthias 6 44 5 43 9 46 6 42 5 45 9 43 6 34 5 53 9 32 8. 1st Sunday in Lent. Matt. 4 Day's Length, 11h. 2m.—11h. 6m.—11h. 21m. 25 S in aphelion: 624 d 6 43 5 45 10 58 6 41 5 47 10 54 6 33 5 54 10 37 6 41 5 46 morn 6 39 5 48 morn 6 32 5 55 11 42 7 Tu Rebels take Juarez, 1912 6 6 0 5 47 0 8 6 38 5 49 0 3 6 31 5 56 morn	- 1000					•			11											
8. 1st Sunday in Lent. Matt. 4 Day's Length, 11h. 2m.—11h. 6m.—11h. 21m. 25 S § in aphelion: 624 q 6 43 5 45 10 58 6 41 5 47 10 54 6 33 5 55 11 42 6 41 5 46 morn 6 39 5 48 morn 6 32 5 55 11 42 6 40 5 47 0 8 6 38 5 49 0 3 6 31 5 56 morn	23 Fr Italy annexed Tripoli, 1912	=		46	5 4	42								29						
25 S S in aphelion: 624 d	24 Sa d Q &. St. Matthias		6	44	5 .	43	9	46	6	42	5	45	9	43	6	34	5 5	3	9 3	2
26 M q gr. libration W.	8. 1st Sunday in Lent. Ma	att.	4		D	ау	's L	eng	yth.	, 11	h.	2m	7	11h	. 61	m.–	-11	h. 2	1m	,
27 Tu Rebels take Juarez, 1912 6 40 5 47 0 8 6 38 5 49 0 3 6 31 5 56 morn		and a	. -					•			5	47	IO	54		33	5 5	4 1	0 3	7
2X IW 1 3W =0.1. 1 = 0 100m 16 a 2 m = a 16 a 6 m = a = a = a = a = a = a = a = a = a =	der moration it.	1 -	10							39	5			-						
18-21- 3-13 4-1 - 25 3-13 5-1 - 7 0 30 5 30 0 43	Trebell tale Junez, 1913			38			1 -	_	п.											
			-		1.0		-	- 3	1	3,	13	50		-/-		30	3 3	-		2



MOON'S PHASES	2	L	ATIT	UDE	1	LA	TIT	UDE	LA	TITUDE
S. FRANCISCO NEW YORK CHICAGO D. H. M. D. H. M. D. H. M.	SIGNS		Bostor		ew ork			rk City; Conn.		Car., Ga.
8 1 58 A. 8 4 58 A. 8 3 58 A. 6 16 4 33 M. 16 7 33 M. 16 6 33 M.	· v	State	s So.	Min	h il	New	Jerse	y, Pa., ina, lili-	Ala.,	Alss., Ark.,
3 30 2 36 M. 30 5 36 M. 30 4 36 M.	NO	Wyo	and	Oreg	on			andCal.		z. and Cal.
D. D. Historical Events.	MOON	Sun Finas H. M.	Bus heis H. M	Мо 86 Н.		Sun rises H. M.	Sun sets H. M.	Meon sets H. M.	Sun rises H. M.	Sun Moon sets sets
I Th St. David 2 Fr 056. Pope Leo XIII. b. 1810	NA	6 36			II	6 35	5 51 5 52		6 29 3	
3 Sa Q in aphelion: (in U	12	6 33	5 52		42	6 32	5 53		6 26	
9. 2d Sunday in Lent. Matt.		D			th.	11h. 2	?1m.	—11h.2	?4m.—	11h. 84m.
4 S dha: dwa 5 M ain apogee 6 Tu Geo. W. Vanderbilt died, 1924	12	6 32 6 30	5 53 5 54		17 47	6 30	5 54 5 55		6 25 5	59 3 52
6 Tu Geo. W. Vanderbilt died, 1914	光	6 28	5 56	5	13	6 27	5 57	5 10	6 23 6	
7 W Fire in Yokohama, 1923 8 Th Schaefer d., 1920	200	6 27 6 25	5 57 5 58		V 11		5 58 5 59		6 21 6	_, ,
9 Fr St. Louis Clubhouse Fire, 1914	20	6 23	5 59	7	5		5 59		6 19 6	J
10 Sa Battle of Neuve Chapelle, 1915	3		6 0	8	9		6 I		6 18 6	71 / 33
10. 8d Sunday in Lent. Luke	! !!			Leng	th,	11h.4	11m.	—11h.4		11h.49m.
II S Cuba ratifies Treaty, 1903 12 M Geo, Westinghouse died, 1914	金	6 20 6 18		-	m 31	6 17		9 11	6 16 6	. J . J .
13 Tu Benjamin Harrison died, 1902	24	6 16	6 4		26	6 16	6 4	11 21	6 14 6	6 10 59
14 W gr. libration E. 15 Th Earthquake in Japan, 1914		6 15 6 13		mor	- 11	6 14	6 5 6 6	morn O 25	6 11 6	
16 Fr South. J. Madison b. 1751	48	6 11	6 7		<i>J</i> -	6 11		I 26	6 10 6	9 1 1
17 Sa Cin Ω. St. Patrick	1 200	6 9			- 7 11	21	6 9	2 21	6 8 6	71 - 3-
	ohn			ıy's l	Len					-12h.8m.
18 S O S S 19 M William J. Bryan born, 1860	الاسما	6 8		_	- J H	6 8	6 10 6 11	3 8	6 6 6	
20 Tu O enters T. Spring begins	المسط	6 4			,	6 4	6 12	4 2I	6 5 6	11 4 12
21 W (in perigee	البخط		6 I3				6 13 6 14	4 5 ² 5 20	6 3 6	
22 Th Cyclone in Omaha, 1913	200	-	6 14 6 15	5 a			6 15	sets	6 1 6	-0; 5
24 Sa dod. Jules Verne d., 1905		5 57	6 16			9 9 1	5 16	8 29	5 59 6	
12. 5th Sunday in Lent. John	28	D	ay's	Leng	th,	12h. 2	?1m	—12h. 2		12h. 17m.
25 S 644. Annunciation 26 M 9 gr hel. lat. S.		J J	6 17 6 18	9 4		J J [5 17	9 41	5 58 6 5 57 6	- 2 2
26 M Q gr. hel. lat. S. 27 Tu Q gr. libration W.			6 20		8	5 53	5 19		5 55 6	16 11 27
28 W Steamer Falaba sunk, 1915		2 2	6 21	mor		9 9 1	5 20 5 21	morn 0 46	5 54 6 5 53 6	6.1
29 Th d & O superior 30th, (in t)		0 10	6 22 6 23			2 371	5 22		5 51 6	
31 S2 098: 6h4			6 24			5 46	5 23	2 12	5 50 6	19 1 51



MOON'S PHASES	S		LAT	ITU	DE	H	LAT	ITU	DE	L	TITL	DE
8. FRANCISCO NEW YORK CHICAGO	CN		Bos						City;			ton; N.
D. H. M. D. H. M. D. H. M. 7 5 49 M. 7 7 49 M.	SI	Sta	jiano to. S	i, N	, York Mich.,				Conn. , Pa.,			., Ga , Ark.,
@ 14 0 12 A. 14 3 12 A. 14 2 12 A.	Ñ	Wis	scon	sin,	lowa,	0	nio, in	dian	a, Illi-	N. L	a. and	Texas,
(B) 21 6 1 M, 21 9 1 M, 21 8 1 M. (B) 28 9 22 A, 29 0 22 M, 28 11 22 A.	MOOM		1	_	Pregon	1-			ndCal.	S. A	riz, aı Sun	Moon
D. D. Historical Events.	MO	Sui rise		un ets M.	Moon sets H. M.	St ris	es B	un ets	Moon sets H. M.	rises	sets	sets
13. Palm Sunday. Matt. 2	7				ength.				-12h.4			
I S I & W Q. Palm Sunday	- K	5 4	3 6	25	2 48	15	44 6	24	2 44	5 49	6 20	2 27
2 M (in apogee	-56	5 4	2 6	26	3 15	5	43 6	25	3 12	5 47	6 20	3 0
3 Tu Flood at Memphis, 1912	912	5 4	0 6	28	3 39	5	41 6	26	3 37	5 46		3 29
4 W Dr. Isaac Funk died, 1912	200	5 3	8 6	29	4 I	5	39 6	27	4 0	5 45		1 0 0
5 Th δ in Ω 6 Fr Good Friday	25		6 6	30	4 22	5	38 6	28	4 22	5 44		4 23
	2	5 3		31	4 44		36 6	29	4 45	5 42		
7 Sa P.T. Barnum d. 2892 14. Easter Sunday. John	30	5 3	3 6 D	30	rises Leng	+6:	35 6	30	rises -12h.	5 41		1
			- 1			1					_	
8 S Easter Sunday	243		0 6	33	0 18	5	33 6	32	8 6	5 49	0 25	
9 M d gr. libration E. Tu 8 in perihelion	141		8 6	34	9 18	5	V .	33	9 13	5 38		- 3-
IO Tu & in perihelion II W Kronpr. Wilhelm interned, 2025	UE.	3	6 6	35 36	11 26	5	30 6	34 35	11 20	5 37		2 22
12 Th W stationary	46		5 6	38	morn	5	27 6		morn	5 35	1 - 2	73
13 Fr Q in Ω	1	T.	3 6	39	0 22	5	25 6	J.	0 16	5 33	4	
14 Sa 2 14th. 12 h 0	M		16	40	I 10		24 6	~,	I 5		6 20	1
15. Low Sunday. John 20	,		Day	1'8 1	Length			_	-18h.			
15 S Steamer Titanic sank, 1912	L.	5 2	0 6	41	I 50	115	22 6	39	1 46	5 3	16 30) I 28
16 M 0 24: 0 0 C	E.		8 6	42	2 24		20 6		2 21	5 39	1 2	1
17 Tu (in perigee	成	5 1	7 6	43	2 54	15	19 6	41	2 52	5 29		1 2
18 W Earthq. in San Francisco, 1906	A		5 6	44	3 20	15	17 6	42	3 20	5 2	6 32	3 19
19 Th Admirai A. Taylor died, 1891	-		4 6	45	3 46	5	16 6		3 47	5 20		3 51
20 Fr gr. hel. lat. N.: 000	-	12	2 6	46	4 14	5	14 6		4 16	5 2		4 26
21 Sa 21st. 696	100	5 1	0 6	48	sets	15	13 6	45	sets	5 2	1 6 34	sets
	ohn	10	Da	y's	Lengti	h, 18	3h. 40)m	-18h.	85m.	-18h	. 12m.
22 S δ4 α: □ΨΘ: δ \$ α	RE	5	96	49	8 34	5	11 6		8 29		3 6 3	8 8
23 M St. George. @ gr. libration W.	1	10	7 6	50	9 41	110	10 6	-7 6	9 35	5 2	1 2 0	
24 Tu & gr. elong. E., 20° 22' . A	2-2	10	6 6	51	10 40	1100	9 6		10 34	5. 2	100	1
- CON 1000 1000 10	1 M	-	4 6	52			7 6		11 25	5 20	1 - "	
En Of O superior. Unit	M	5	3 6	53	morn	2		~ "	morn	5 1	نادا 4	
27 Fr 3 6 h (28th—29th. 6 \pm (NI NI	5	0 6	54 55	0 13	4 14	3 6			5 1		1
2011-2911. O \$\psi\tag{1}	hn	1 2			Lengt				<u>'</u>	11 0	1 0.	0 24 25m.
29 S 4 in apogee	-BG		9 6	56		5	2 6		I 12		5 6 4	
30 M St. Louis Expos. opened, 1904	-40		7 6	58	1 41			54	1 38	5 7	164	
The state of the s		,,,,	-	, ,		11 2		34		11 3	7 4	1 9

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MOON'S PHASES	50	LA	TITU	IDE	1.4	TITU	IDE	LATITUDE
S. FRANCISCO NEW YORK D. H. M. D. H. M	OON'S SIGN	Of Bo Englar State, Wisco Wyo.	ston nd, I So. nsin and	New Nork Mich., lowa.	Of Ne Phila New Ohio,	w Yor del'a, Jersey India	k City; Conn. /, Pa., na, Illi- ndCal.	Of Charleston: N. and S. Car., Ga., Ala., Miss., Ark., N. La. and Texas, S. Ariz. and Cal.
D. D. Historical Events.	MO	rises	Sun sets I. M.	Moon sets H. M.	Sun rises H. M.	Sun sets H. M.	Moon sets H. M.	Sun Sun Moon rises sets sets H. M. H. M. H. M.
Tu St. Philip and St. James W Russ. defeated in Galicia, 1915 Th Daniel E. Sickles died, 1914 Fr Fire in Valparaiso, 1914 Sa 694: § stationary	60.	4 56 6 4 54 7 4 53 7 4 52 7 4 50 7	Ó	2 4 2 26 2 48 3 10 3 35	4 58	6 55 6 56 6 57 6 58 7 0	2 3 2 26 2 49 3 12 3 38	5 13 6 41 1 58 5 12 6 42 2 25 5 11 6 43 2 53 5 10 6 43 3 21 5 9 6 44 3 52
18. 4th Sunday after Easter. 3	oh n	16 D	ay's	Lengtl	h, 14h.	15m.	—14h	.8m.—18h.86m.
	也是明明原	4 49 7 4 48 7 4 47 7 4 46 7 4 44 7 4 43 7 4 42 7	4 5 6 8 9 10	4 5 rises 9 18 10 17 11 7 11 49 morn	4 53 4 52 4 51 4 49 4 48 4 47 4 46	7 I 7 2 7 3 7 4 7 5 7 6 7 7	4 9 rises 9 12 10 11 11 2 11 44 morn	5 9 6 45 4 28 5 8 6 45 rises 5 7 6 46 8 47 5 6 6 47 9 47 5 5 6 6 47 10 39 5 4 6 48 11 26 5 3 6 49 morn
19. Rogation Sunday. John	16	Da	y 's .	Length	, 14h.	31m	—14h.	23m.—18h.47m.
14 M 15 Tu Standard Oil Co. dissolved, 1912 16 W 6 ♥ ⊙ inferior 17 Th Ascension Day 18 Fr Battleship Texas launched, 1912	BELLE BE	4 4 ¹ 7 4 4 ⁰ 7 4 3 ⁹ 7 4 3 ⁶ 7 4 3 ⁶ 7 4 3 ⁷ 7	12 13 14 15 16 17 18	0 24 0 55 1 23 1 49 2 15 2 43 3 15	4 45 4 44 4 43 4 42 4 41 4 40 4 40	7 8 7 9 7 10 7 11 7 11 7 12 7 13	0 21 0 53 1 22 1 49 2 17 2 46 3 19	5 3 6 50 0 7 5 2 6 51 0 45 5 1 6 51 1 20 5 1 6 52 1 52 5 0 6 53 2 25 4 59 6 53 3 0 4 59 6 54 3 38
20. Sunday after Ascension. John	n 15	-16 Da	y's	Len gth	,14h.	15m	–14h. 8	85m.—18h. 5 7 m.
21 M	22 M	4 34 7 4 33 7 4 32 7 4 32 7 4 31 7 4 30 7 4 29 7	19 20 21 22 23 24 25	3 53 sets 9 22 10 7 10 44 11 15 11 42	4 38 4 37 4 36 4 36 4 35	7 18 7 19	3 58 sets 9 16 10 2 10 39 11 11 11 39	4 58 6 55 4 21 4 57 6 56 sets 4 57 6 56 8 51 4 56 6 57 9 39 4 56 6 58 10 19 4 55 6 58 10 55 4 55 6 59 11 28
21. Pentecost—Whit Sunday. Fe	ohn	14 D	ay's	Lengtl	h, 14h.	58m.	—14h.	46m.—14h.4m.
28 M 28th. S stationary 5 stationary 5 stationary	20°	28 7 28 7 27 7 27 7 26 7	26 26 27 28 29	0 28	4 33 4 32 4 32	7 20 7 21 7 22 7 23 7 23	- (4 55 6 59 11 58 4 54 7 0 morn 4 54 7 1 0 25 4 53 7 1 0 52 4 53 7 2 1 19



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MOON'S PHASES S. FRANCISCO NEW YORK CHICAGO H. M. D. H. M. D. H. M. CHICAGO H. M. D. H. M. D. H. M. CHICAGO H. M. D.	OON'S SIGNS	Of Engl State Wise Wyo	and, e, So cons and	N. N. In, I	New York lich., lowa, regon	Ph Ne Or no	illade w Je nio, in is, Ne	Yorl l'a, rsey dian b.a	City; Conn. Pa. la, Illi- ndCal.	Al N. S.	d S. (a., M La.s Ariz	lesto Car., iss., and T	n; N. Ga., Ark., exas, I Cal.
D. D. Historical Events.	MO	Sun rises H. M.	Su set H.	8	Moon sets H. M.	Su ris H.	es s	un ets . M.	Moon sets H. M	TH.		ets . M.	Moon sets H. h.
I Fr Storm near Charleston, 1915 2 Sa q gr. libration E.	壶	4 26		30	I 35 2 3		31 7 30 7	24 25	1 38	4 4	53 7 52 7	3	I 49 2 23
22. Trinity Sunday. John	23		Dα	y's	Lengt	h.1	5h.6	m	-14h	. 56	m.—	14h.	11m.
S Trinity Sunday M Pretoria captured, 1900 Tu 5th 6 δ δ W Charles H. Cramp died, 1913 Th 6 in Ω. Corpus Christi Fr 6 44: 6 in perigee: 6 24 9 Sa Charles Dickens died, 1870	点が必らなるる	4 25 4 24 4 24 4 23 4 23 4 23	777777	33 34 34	2 37 3 17 rises 9 2 9 48 10 26 10 58	4 4 4 4	3º 7 3º 7 29 7 29 7 29 7 29 7	26 26 27 28 28 29 29	2 42 3 22 rises 8 50 9 42 10 22	4 4 4 4 4 4 4	52 7 52 7 52 7 52 7 51 7 51 7 51 7	3 4 5 5 5 6 6	3 3 3 47 rises 8 33 9 23 10 7
28. 1st Sunday after Trinity.	Luk	26	Dα	y's	Lengt	h, 7	5h.	18m	.—15	h. 2	m.—	14h.	16m.
10 S dof. Edw. E. Hale d., 1909 11 M dof. St. Barnabas 12 Tu lett. Rye-house Plot, 1683 13 W of gr. hel. lat. S. 14 Th 15 Fr Violent Storm in Paris, 1914 16 Sa duf. Storm in Missouri, 1912	A A CHEEP DE	4 23 4 22 4 22 4 22 4 22 4 22 4 22	7 7 7 7 7	36 1	morn o 18 o 46 1 17 1 51	4 4 4	28 7 28 7 28 7 28 7 28 7 28 7 28 7	30 31 31 31 32 32 33	11 2 11 5 morr 0 1 0 4 1 2 1 5	4 4 4 4 4 4	51 7 51 7 51 7 51 7 51 7 51 7	8	11 21 11 53 morn 0 26 1 1 1 38 2 17
24. 2d Sunday after Trinity.	Luke	: 14	Dα	y's	Lengt	h, 7	15h.1	7m.	15	h. 6	m.—i	14h.	19m.
17 S dd(: dd() 18 M Battle of Waterloo, 1815 A 19 Tu Gen. Turchin d. 1901 20 W Th Gen. Gin to the control of th	ににななな事事	4 22 4 23 4 23 4 23 4 23	7 7 7 7 7	39 39 40 40 40	2 31 3 18 sets 8 43 9 17 9 45	4 4 4 4 4 4	28 7 28 7 28 7 28 7 29 7 29 7 29 7	33 33 34 34 34 34 34	2 3 3 2 sets 8 3 9 1 9 4	4 4 8 4 3 4	51 7 52 7 52 7 52 7 52 7	II	3 II 3 5II sets 8 17 8 55 9 28 9 58
25, 8d Sunday after Trinity.	Luke	15	Dα	y's	Lengt	h, 1	15h.	16m	.—15	h. 6	m.—	1 4h.	18m.
24 S (in apogee. St. John, Bapt. 25 M Fire at Salem, Mass., 1914	20	4 24		40		4	29 7 30 7	35 35	10 3 10 5		301		10 26 10 52

II 49 morn

12

12 0 20

26 Tu 27 W 28 Th 29 Fr 30 S2

Earthquake in Sumatra, 1914

St. Peter and St. Paul

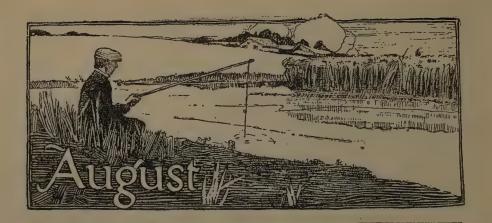
@gr. libration E.

27th. J. Smith shot, 1844

Archd. Ferd. assass., 1914



	rk Philadel'a, Conn. New Jersey, Pa Ohio, Indiana, Illinois, Neb. and Cal. S. Ariz. and Cal. Sun Sun Sun Moon
S Steamer Armenian sunk, 1915 2 M \(\frac{1}{2} \) \(\f	8 4 32 7 35 1 13 4 55 7 12 1 36 54 4 32 7 35 2 0 4 55 7 12 2 25
8 S Rebels take Guadalajara, 1914 4 30 7 38 9 5 9 M Seres and Kavala capt'd, 1913 4 31 7 38 10 2 11 W Wyoming admitted, 1890 4 32 7 38 10 2 2 4 32 7 38 10 2 2 4 32 7 38 10 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16
15 S Q gr. hel. lat. N. A Red 4 36 7 35 I I T T Q gr. hel. lat. N.: Q in U 14 38 7 34 38 7 34 38 7 34 38 7 34 38 7 34 38 7 34 38 7 34 38 7 34 38 7 34 38 7 34 38 7 34 38 7 34 38 7 34 38 7 34 38 7 34 38 7 34 38 38 38 38 38 38 38	7 4 44 7 28 7 43 5 5 7 7 7 29 3 4 45 7 27 8 10 5 5 7 7 8 1 6 4 46 7 26 8 34 5 6 7 6 8 29
22 S Binghamton Factory Fire, 1913 4 42 7 30 8 5 23 M Austria Ultimat. to Servia, 1914 4 43 7 29 9 1	th, 14h. 48m.—14h. 88m.—18h. 58m.



A LATITUDE LATITUDE

LATITUDE

MOON'S PHASES

8. FRANCISCO NEW YORK D. H. M. E. III. III. III. III. III. III. II	S'S	Engla State Wisc	, So. onsin,	New I. York Mich., Iowa, Oregon	Phila New Ohio	del'a, Jersey India	k City; Conn. , Pa., na, Illi- ndCal.	Of Charleston; N. and S. Car., Ga., Ala., Miss., Ark., N. La. and Texas, S. Ariz. and Cal.
D. D. Historical Events.	MOC	Sun rises H. M.	Sun sets H. M.	Moon sets H. M.	Sun rises H. M.	Sun sets H. M.	Moon sets H. M.	Sun Sun Moon rises sets sets H. M. H. M. H. M.
The Ger. decl. War on Russia, 1914 The decl. Elisha Gray b., 1835 Fr decl. Germans decl. (in perigee 4 Sa Germans are flow Twinity.	なるこれ	4 52 4 53 4 54 4 55	7 16	2 44 4 I rises 7 57	4 56 4 57 4 58 4 59	7 16 7 15 7 14 7 13	7 56	5 13 6 58 3 13 5 14 6 57 4 25 5 14 6 57 rises 5 15 6 56 7 53
81. 9th Sunday after Trinity. S	Luke	4 56 4 57 4 58 4 59 5 0 5 I	7 15 7 14 7 13 7 11 7 10 7 9 7 7	8 24 8 52 9 22 9 54 10 31 11 14 morn	5 0 5 1 5 2 5 2 5 3 5 4 5 5	7 12 7 10 7 9 7 8 7 7 7 5 7 4	8 24 8 54 9 25 9 58 10 36 11 20 morn	5 16 6 55 8 27
12 S Eng. decl. War on Aust. 1914 A 13 M d d (: ((in t)) 14 Tu 8 & O. E. T. Seton born, 1860 15 W d ((I) N. Bonaparte b. 1769 16 Th d ((I) True, 1760 17 Fr 18 Sa 11th Sunday after Trinity.	一般の	5 4 5 5 5 6 5 7 5 8 5 10	7 4 7 3 7 2 7 0 6 59 6 57	1 57 2 58 4 0 sets 7 3	5 6 5 7 5 8 5 9 5 10 5 11 5 12	7 1 7 0 6 59 6 57 6 56 6 54	2 2 3 3 4 4 sets 7 2	5 23 6 45 3 23
19 S Steamer Arabic sunk, 1915 20 M & in aphelion; O & (: O & 0 21 Tu & Gen. Franz Sigel died, 1902 22 W & gr. elong. E., 27° 23' 23 Th Japan decl. War on Ger., 1914 24 Fr	からなったから	5 11 5 12 5 13 5 14 5 15 5 16	6 56 6 54 6 53 6 51 6 50	7 25 7 46 8 9 8 35 9 5 9 40	5 13 5 14 5 15 5 16 5 17 5 18 5 19	6 53 6 51 6 50 6 48 6 47 6 45	7 25 7 47 8 11 8 38 9 9 9 45	5 26 6 41 7 27 5 26 6 40 7 53 5 27 6 39 8 22 5 27 6 38 8 54 5 28 6 36 9 29 5 29 6 35 10 8
34. 12th Sunday after Trinity. S	學	5 19 5 20 5 21 5 22	6 45 6 43 6 41 6 40 6 38	II 18 morn 0 22 I 34		6 42 6 41 6 39 6 38 6 36	11 24 morn 0 28 1 39 2 55	5 31 6 32 morn 5 31 6 30 0 53 5 32 6 29 2 1 5 33 6 28 3 12



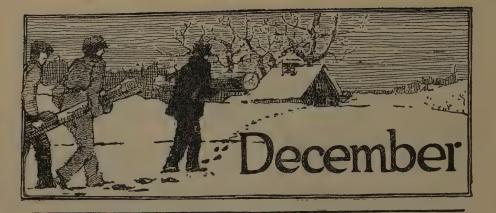
	MOON 3 FIRSES	- 23		LA'	TIT	UDE		3	LAT	TIT	JDE	li	LA	TIT	UDE	
8 8	FRANCISCO NEW YORK CHICAGO 4 28 M. I 7 28 M. I 6 28 M	SIGNS		f Bo			lew		f New				Of Ch			
Œ 17	21 5 A 8 2 5 M. 8 1 5 M	SI		nglar tate.			ork		hilade				and S			
16	2 27 M. 16 5 27 M. 16 4 27 M			isco					ew را hio, li				Ala., N. La	NIISS	Tev	K.,
23	9 41 A. 24 O 41 M. 23 11 41 A	·		/yo. a					ois, N				S. Ar			
(g) 130	0 31 A. 30 3 31 A. 30 2 31 A	MOON	-			1		-	_			-				
D. D		1 2			Sun		oon ses			inn sets	Mo		Sun	Sun		on
M. W	Instorical Events.	12			L. M.		M.			ieu I. M.	ris		rises H. M.	Hets		es M.
I Sa	I in perigee	10		2416		_	-		26 6			22		_		21
	8th Sunday after Trinity.	Luk	-			-		_						6 2	4	
	oth bunday after Trinity.	Lun	6 1	U			Bng	un.	13h.	om	/	on.	<i>-</i> т.–	-12n	. 491	n.
2 8	Ist. Sedan surrend., 1870	EA.	5	25 0			51	5	27 6		6	52	35	6 24	H 6	57
3 M	2 14 O. Labor Day	2	5	26 6	31	7	21	5	28 6	30	7	23 !	35	6 23	7	34
4 Tu	Steamer Hesperian sunk, 1915		5	27 6	30	7	53	5	29 6	28			36	6 21	8	13
5 W	& stationary	44	5	29 6	28	8	29	5	30 6	26		34		6 20	8	55
5 W 6 Th		Rep.		30 6	26	9	11	5	31 6	25		16		6 10		41
	640	500		31 6		_	59	5	32 6	- 3	_	5		6 17		31
7 Fr 8 Sa				32 6					-		1					25
	8th. Gen. Corbin d. 1909 A			J			53		5571			59 5			-	
<i>86. 1</i>	4th Sunday after Trinity.	Luke	27	7 Da	ıy's	Lei	ıgth	, 72	2h. 48	3m.·	<i>−12</i>	h. 40	3m.–	-12h	. 361	n.
9 5	ogr. hel lat. S.; @ in ??	12	5	33 6	21	II	51	15	34 6	20	II !	56 115	39	6 15	mo	orn
IO M	Empress Elizabeth assass. 1898	10	100	34 6	19	mo		5	35 6	18	mo	عا الساء		6 13		21
II Tu		44		35 6			51	5	36 6		0			6 12	"	17
12 W	004	₽#G		22 2		4							سد	6 11		•
	OW C: Oh C			3		1	53	5	J/	15		57		,		15
13 Th	0.000	1		37 6		2	55	5	2-12	13		58		6 8		II
14 Fr	(in apogee	200		38 6		J 2	55	5	39 6	12		57 5				5
I5 Sa	Germans take Pinsk, 1915	250	5	39 6	II	4	54	5	40 6	10	4 :	55 5	431	6 7	4	59
87. 1	5th Sunday after Trinity.	Matt.	. 6	Dα	y's	Len	gth,	, 12	2h. 29	m	-12	h. 27	m	-12h	. 211	n.
16 IS	160-617 140	I and I	e.	40 6		se	te I	5	41 6	8	set	s II S	1 44	6 5	l se	te
	ibth. do	Z.			9	_	16		42 6		6	_ "		-		
17 M	Dr. Jno. Hall died, 1898			7 10 10	7					7			•		1 -	27
18 Tu	d ♥ ⊙ inferior			42 6	5		40		43 6	5		13 5	, , ,	6 3	\$	57
19 W	d Q (. Bulgaria mobilizes, 1915		5 4	43 6	3	7	8	5	44 6	3	7	12 5		6 2		30
20 Th	Flood in India, 1915	202	5 4	44 6	2	7	42	5	45 6	I	7 4	17 5	46	6 c	8	9
21 Fr	St. Matthew	202	5 4	46 6	0	8	23	5	46 6	ာ	8 2	29 5	47	5 59	8	53
22 Sa	общ. Robt. Hoe died, 1909			47 5	58	9	12	5	47 5	58	9 1	1815	48	5 58	9	44
	6th Sunday after Trinity.	Lu		-	Da	11'8	lene	711	, 12h	. 81	n.—	12h.	8m	-12	h. 8r	n.
00. 7	oth bunday after rrining.	1-001	-	<u> </u>								*				
23 5	23d. Autumn begins &			48 5	56	10	10		48 5	56		16 5	- 1	5 56	1	•
24 M	224th. (in ()	献	_	49 5	55	II	17		49 5	55		22 5		5 55		45
25 Tu	French bombard Lissa, 1914	練	5 !	50 5	53	mo	rn	5	50 5	53	moi	m 5	50	5 53	mo	rn
26 W	Russians occupy Przemysl, 1914			51 5	51	0	29	5	51 5	51	0 3	33 5	50	5 52	0	53
27 Th	o stationary: d & C			52 5	49	1	44		52 5	50		7 5		5 51	2	2
28 Fr				53 5	48	3	2		53 5	48	3	4 5		5 49	3	12
-	ğ in Ω			اما العاد	46		20		54 5	46	_	0 5	52	5 48		23
-71	30th Michaelmas Day	الالمخاصالة	_									" "				_
89. 17	7th 8unday after Trinity. 1	uke			_	_			h. 49							n
30 IS	24 stationary	2	5 !	5515	44	5	38	5	55 5	45	5 3	7 5	531.	5 47	5	34
		-										-				



MOON'S PHASES	S	LATITU	DE	LATITU	JDE	LATITUDE				
S. FRANCISCO NEW YORK CHICAGO D. H. M. D. H. M. D. H. M.	IGNS	Of Boston; England, N	. York	Of New You Philadel'a	Conn.	Of Charleston; N. and S. Car., Ga.,				
6 7 2 14 A. 7 5 14 A. 7 4 14 A. 15 6 41 A. 15 9 41 A. 15 8 41 A.	SI	State, So. Wisconsin,	Mich.,	New Jerse Ohio, India		Ala., Miss., Ark., N. La. and Texas.				
6 23 6 38 M. 23 9 38 M. 23 8 38 M.	ż	Wyo. and C		nois, Neb.		S. Ariz. and Cal.				
6 29 10 19 A. 30 1 19 M. 30 0 19 M.	8	Sun Sun	Moon	Sun Sun	Moon	Sun Bun Moon				
D. D. Historical Events.	W	rises sets H. M. H. W.	riaes H. M.	rises sets	rises H. M.	rises into rices				
IM doh. Annie Besant b., 1847	2	5 56 5 43	5 48	5 56 5 43	5 51 6 27	5 54 5 45 6 5				
2 Tu Railroad Disaster in Belg., 1915	ALC.	5 58 5 41	6 23	5 57 5 41		5 54 5 44 6 46 5 55 5 43 7 32				
3 W & in perihelion Th & gr. elong, W., 27° 56'	200	5 59 5 39 6 0 5 37	7 4 7 51	5 58 5 40 5 59 5 38	7 9 7 57	5 55 5 43 7 3 ² 5 56 5 42 8 22				
	27	- 12 2/	8 45	5 59 5 38	8 51	5 56 5 40 9 16				
5 Fr 646 6 Sa 6 in ?. Jenny Lind b., 1820	57		9 43	6 1 5 35	9 49	5 57 5 39 10 13				
	Matt	. 22 Day's	Length	.11h. 29m.	—11h.	31m.—11h.40m.				
7 S 7th. O.W. Holmes d. 1894 8 M Fire in Chicago, 1871	12	6 3 5 32	10 44		10 49	5 58 5 38 11 11				
	12	6 4 5 31	11 45	6 3 5 32		5 59 5 36 morn				
9 Tu dΨq. Antwerp capt., 1914	州	6 5 5 29 6 7 5 27	morn o 46	6 4 5 30	morn O 49	6 0 5 35 0 8 6 0 5 34 I 4				
IO W Oh (: do (II Th) (in apogee	781	6 8 5 25	I 47	6 5 5 28		6 1 5 33 1 59				
Fr Germans occupy Ghent, 1914	25	6 9 5 24	2 47	6 7 5 25	1 .2	6 2 5 31 2 53				
13 Sa 5 gr. hel. lat. N.	98	6 10 5 22	3 46	6 8 5 24		6 2 5 30 3 47				
41. 19th Sunday after Trinity.	Mati	t.9 Day's	Length	, 11h. 10m.	—11h.	18m.—11h.26m.				
14 S S o in aphelion: 6 0 0	13	6 11 5 21	4 46	6 9 5 22	1 4 45	6 3 5 29 4 41				
15 M 15th, Sen. Dolliver d. 1910	*	6 13 5 19	5 47	6 11 5 21	5 45	6 4 5 28 5 37				
16 Tu Germans occupy Ostend, 1914	256	6 14 5 17	sets	6 12 5 19		6 5 5 26 sets				
17 W Four Ger. Destroyers sunk, 1914 18 Th St. Luke. Evangelist.	101	6 16 5 16	5 44 6 23	6 13 5 18	1 2 72	6 5 5 25 6 9				
18 Th St. Luke, Evangelist. 19 Fr 096. Eug. Ely killed, 1922	The USE	1 10 1	6 23	6 14 5 16	1 .	6 6 5 24 6 52				
20 Sa ogr. libration E.	48	1 7 3 3	8 5	6 16 5 13	1 2	6 8 5 22 8 36				
42. 20th Sunday after Trinity.	-	1 12		10 0	-					
21 S (in Ω	1 68	16	9 8							
22 M John Sherman died, 1900	4	6 21 5 8	10 17	6 18 5 10		6 9 5 20 10 42				
23 Tu 23d. Gen. Diaz capt. 1912	O.S.	1	11 30		II 33	6 10 5 19 11 49				
24 W So & C 25 Th Battle of Balaclava, 1884	107	1	morn	6 20 5 8		6 11 5 18 morn				
25 Th Battle of Balaclava, 1854 26 Fr Typhoon in Philippines, 1915	6	6 24 5 4	O 44	6 22 5						
27 Sa (in perigee	6	6 26 5 1	3 14	1 2 3 3	3 14	- - -				
-/ d in perige	1	1-13	1 3 1	11 113		. 015 11 5 5				
48. 21st Sunday after Trinity.	Joh	10.01			1 0	87m.—10h.59m.				
28 S St. Simon and St. Jude. 29 M Henry George died, 1806		6 28 5 0			4 28	1 . 1				
29 M Henry George died, 1896 30 Tu 30th. 8 stat.: □ W ⊙	2	12 -714 3-		6 26 5	5 43 rises	6 15 5 12 5 32 6 16 5 12 rises				
31 W Hallowe'en	F-2	1 2 1 27		11		1 1				
		- vi			1 3 13	12 1 2				



MOON'S PHASES 8.FRANCISCO NEW YORK D. H. M. 6 9 3 M. 6 0 3 A. 6 11 3 M. 14 10 28 M. 14 1 28 A. 14 0 28 A. 21 2 29 A. 21 5 29 A. 21 4 29 A. 22 8 10 41 M. 28 1 41 A. 28 0 41 A.	OON'S SIGNS	Of Engl State Wise	ATIT Boston and, a. So. consir and	N. Y Mic	lew ork oh wa,	Of Phi Nev Oh	New ilade w Je	Yor el'a, erse ndia eb.a	k Ci Coi y, P	lty: nn. a., Ili-	Ala N.	Cha d S.	rift Car Car Viss and z. a	ton; G Ar	N. a. k.
D. D. Historical Events.	MO	Sun rises H. M.	Sun sets H. M	ri	ses M.	Sur rise H. 1	8 8	ets . M.	Mo rie H.		Su ris H.	es	Sun sets H. M.	rie	es M.
Th 644. All Saints' Day Fr q gr. libration W. Sa 6 6 6 0 superior: q in U	1	6 33 6 34 6 35		7	31 29 31	6 3	0 4 I 4 2 4	56	6 7 8	37 35 36	6	17 18 19 1	9	7 8 8	2 0 59
	latt.		Day's	Ler	igth	.10/	1. 14	lm.	-1	0h. 2	21n	ı.—	10h	.47	n.
7 W Earthquake in Peru, 1913 Th d d (1 in apogee Fr to Sa Emp. Yoshihito crowned, 1915	张明明 重體	, ,	4 49 4 48 4 47 4 46	IO II mo	33 35 36 orn 36 36 35	6 3 6 3 6 3	8 4	54 52 51 50 49 48 47	IO II mo O I	39	6 2 6 2 6 2	20 5 21 5 22 5 23 5 24 5 26 5	6 6 5 4	9 10 11 mc 0 1	51
	Matt.					th, 9			<u>-</u> 1	10h.					
11 S Germans capt. Dixmude, 1914 12 M □ δ ⊙ 13 Tu 14 W □ δ ⊙ 15 Th 16 Fr 17 Sa (in Ω. Suez Canal op'd, 1869)	自由自由學學	6 48 6 49	4 41 4 40 4 40 4 39 4 38	4 5 5 5	36 38 41 ts 6 59	646464	3 4 4 4 5 4	46 45 44 43 43 42 41	4 5 set	12 5	6 2 6 3 6 3	26 5 27 5 28 5 29 5 30 4 31 4	0 59 59	4 5 se 5 6	28 24 21 ts 37 30 31
48. 24th Sunday after Trinity.	Mat	t. 9	Day	l's L	eng	th, S	9h.4	2m.	<u>—</u> 9	h. 5	0m		10h.	25n	n.
21 W 21st. 680	祭	5 55 5 57 5 58 5 59	4 36 4 35 4 35 4 34 4 33 4 33 4 32	9 10 11 mc	34 46 orn 58	6 5 6 5 6 5 6	1 4 3 4 4 4 5 4	40 40 39 38 38 37 37	9 10 11 mo	25 36 47 rn	6 3 6 3 6 3 6 3	3 4 4 4 5 4 6 4 7 4 8 4	57 57 56 56 56	9 10 11 mo	35 42 49 54 rn 59 6
47. 25th 8unday after Trinity.	Foh	n 6	Day	's L	eng	th, 9	h. 2	9m.	.— 9	h. 8	88m		10h.	16n	7.
Tu Hoosac Tunnel opened, 1873 W 28 W 28th. 640: 840 Th Thanksgiving Day	学代 对 7	5	4 32 4 31 4 31 4 30 4 30 4 29	4 5 rise 5	40 52 es 12	6 58 6 59 7 1 7 2 7 3	4 4 4	36 36 35 35 35 34	4 3 7 2 7 1 5 1	36 47 5 18		0 4 I 4 2 4 2 4	55 55 54 54 54 54	4	43



MOON'S PHASES	S		LA	TITU	DE	-	LAT	TU	DE I	LA	TIT	UDE
8. FRANCISCO NEW YORK CHICAGO D. H. M. D. H. M.	SIGN	En	glar	id, N	Nev . Yor	k P	f New hilade	l'a, (Conn.	and S	. Ca	ston; N. r., Ga.,
6 6 14 M. 6 9 14 M. 6 8 14 M. 14 17 M. 14 3 17 M.	l un	Sta	ate.	So. 1	Mich. Iowa	: NO	ew Je hio, in	dian	a, IIII-	N. La	a. and	Ark I Texas.
20 10 7 A. 21 1 7 M. 21 0 7 M. 28 1 52 M. 28 4 52 M. 28 3 52 M.	NOO	W	yo. a	and C	rego	n n	ois, Ne					ind Cal.
D. D. Historical Events.	MO	ris H.	es	Sun sets I. M.	Moot rises	ri	ses s	ets M.	Moou rises H. M.		Sun sets H. M	rises
I Sa Rear Adm. A.T. Mahan d. 1914	12	7	914	لكتب	_	7 17	4 4	34	7 22	6 44		
48. 1st Sunday in Advent.	latt.	21		Day	j's Le	ngt	h. 9h.	18m	<u>. —9h</u>	. 29m	-10	0h. 9m.
2 S Austrians take Belgrade, 1914	12		10 4	· • •	8 2	11	5 4	34	8 24	6 45		
3 M δΨα: δηα	時		114	_ ^	9 2		6 4	33	9 26	6 46	1. 0	
4 Tu Ford Peace Ship sailed, 1915 W M. L. Hayward died, 1800	神 氏		12 4	· ~I	IO 2.		7 4 8 4	001	IO 26	6 47	1	
5 W M. L. Hayward died, 1899 6 Th 6th. St. Nicholas	35		14 4		morr		9 4	33	morn	6 48		
7 Fr A. Montg. Ward d., 1913	516		15 4		0 2	11 -	10 4	33	0 23	6 49		
8 Sa British Naval Victory, 1914	3	7	16 4		I 2		11 4	33	I 22	6 50	4 5	
49. 2d Sunday in Advent.	.uke	21		Da	y's L	engt	th, 9h.	11n	1.—9h	. 21m	.—10	0h. 8m.
9 S William Deering died, 1913	3		17/4		2 2	4 7	12 4	33	2 22		4 5	
10 M Sereno E. Payne died, 1914	243		18 4		3 2		13 4	33	3 24	6 52		
II Tu oo	27	1.	19 4	• •	4 3		14 4	33	4 27		4 5	
12 W (gr. libration E.	48		20 4 21 4		5 3		- 7	33	5 30	6 53		
13 Th Mrs. U.S. Grant died, 1902 U	482		21 4 21 4		6 3 sets		16 4	33	6 33 sets	6 54	,	7
14 Fr 14th. (in Ω 15 Sa 15 S (1)	- At		22 4		5 5	11 "	17 4	34	6 2	6 55		
31 1 0 0 0 0	Watt	. []	,			4	7th. 91		1.—9h	. 16m		0h. 0m.
16 S Card. Rampolla died, 1913	16	17	23 4	1 29	7	9 7	18 4	34	7 13	16 56	14 5	6 7 32
17 M 696: Ögr. elong.E., 20°20'	u.		23/4			3 7	18 4	34	8 26	11		
18 Tu dod; (in perigee	w.	7	24 4	1 29	9 3	7 7	19 4	35	9 39	6 57	1 4 5	7 9 47
19 W Gen. H.W. Lawton killed, 1899	A	1.		4 30	10 5	0∥7	20 4	35	10 51	6 57	4 5	7 10 53
20 Th U. S. Bank closed, 1791	品	1 "	- 1	4 30	mori	110		36	morn	6 58	4 5	8 11 59
21 Fr 21st. St. Thomas 22 Sa Winter begins	2	1,	-1	4 31	0	3 7	21 4	36	0 2	11 2 3		
7 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	~	1,_		4 31		5 7	21 4	371	1 13			9 1 5
61. 4th Sunday in Advent.	Foh				1		gth, 91			1. 15m		0h. 0m."
23 S Currency Bill signed, 1913 24 M 6 stationary	450			4 32		7 7	22 4	37	2 24	1 0.		9 2 11
24 M	APR.		<u>ار</u>	4 32 4 33		8 7		~	3 34		10	0 3 16
26 W St Stephen. (gr. libr. W.	5		اه	4 33 4 34	1 1	2 7		_	5 46			I 5 23
27 Th (in C. St. John, Evangelist	900	,		4 34	, ,	19 7		~~)	6 43	11 7	1 5	1 6 20
28 Fr 28th. Innocents	12	7	- 1	4 35	rise		٠, ١	40	rises	11 "	2 5	2 rises
29 Sa Sa sin perihelion	M			4 36		417			6 8		2 5	3 6 28
62. Sunday after Christmas.		att.				-	gth, 9		n.—91	1. 18m	.—7	0h. 2m.
30 S δΨ. Str. Persia sunk, 1915 31 M δ 2 δ: δ η α: Q in Ω	峰		29 30		1 6	8 7	24 4		7 II 8 I2	11 "	2 5 3 5	4 7 27 4 8 24

ASTRONOMICAL CALCULATIONS FOR THE YEAR 1917

Eras of Time

The year 1917 comprises the latter part of the 141st and the beginning of the 142d year of the Independence of the United States, since Aug. 1 the 3d year of the Great War, and corresponds to the following eras:

Year 7425-7426 of the Byzantine Era, beginning Sept. 1.

"5677-78 of the Jewish Era; the year 5678 begins at sunset

" 5077-78 of the Jewish Era; the year 5078 begins at sunser Sept. 16.

Year 2670, since the foundation of Rome.

" 2229 of the Grecian Era.

" 2577 of the Japanese Era.

" 1335-36 of the Mohammedan Era; year 1336 begins Oct. 17.

Cycles of Time
Dominical or Sunday Letter G.
Epact of Moon's age Ian. 1
Lunar Cycle or Golden Number
Dionysian Period246
Solar Cycle
Roman Indiction
Julian Period
Jewish Lunar Cycle. 15
Jan. 1 is the 2,421,230th day since the beginning of the Julian Period.
renod.

HEBREW CALENDAR, A. D. 1917, A. M. 5677-78

The year 5677 is the 15th of the 299th cycle of 19 years

Year	No.	. Name	Day	Fast or Festival Fast of Tebet Rosh-Chodesh Fast of Esther Purim Rosh-Chodesh	Gregorian date
5677	4	Tebet	10	Fast of Tebet	Thr Tan 4
56	5.	Sh'vat	1	Rosh-Chodesh	Wed Ion 24
66	6	Adar	1	"	The Eri Fob 22-22
66	2.2	46	13	Fast of Esther	Wed Mah 7
22	46	60	14-15	Purim	The Fri Moh 8-0
"	7	Nissan	1	Rosh-Chodesh	Sot Moh 24
66	46	66	15	ist day of Passover	Sat Apr 7
- 22	g.	Tvor	1	Rosh-Chodesh	Sun Mon Ann 22-12
66		4.6	12	Lag R' Omer	The Man 10
£6 '			18	Lag-B'-Omer.	The Mar 10
66.	0	Sivan	1	Rosh-Chodesh	Tue Mer 22
"		66	6	1ct day of Pentagert	Cun May 27
"	10	Tammuz	1	. 1st day of Pentecost	Wed The June 20-21
11 .	44		17	Fact of Tammuz	Sot * Tule 7
£6 °	41	Av	4	Fast of TammuzRosh-Chodesh	Eri Tuly 20
22	46		Ġ.	Fast of Av	Sat * Tuly 20
66	12	Ellul	1	Rosh-Chodesh	Sat Sun Aug 18-10
5678°		Tichri	1	ret day of New Veer	Mon. Sept. 17 or beginning sunset Sept. 16
3010.		46	2	Fact of Godelich	Wed Sept 10
66		«	10	Fast of Gedaliah Yom-Kippur 1st day of Tabernacles	Wed Sept 26
46		ee	15	1et day of Tohernacles	Mon Oct 1
46		£6	21	Hochannah Dabbah	Sun Oct 7
66		· · · b.s · · · · · · · · · · · · · · · · · · ·	22	Sh'mini Atsaras	Mon Oct 9
65		66,	23	Hoshannah-Rabbah Sh'mini Atseres Simchas-Torah	Tue Oct 0
66	2.	Kicley	1	Rosh-Chodesh	The Fri Nov 15-16
66		46	25	1st day of Chanukah	Mon Dec 10
66	A	Tabet	1	Rosh-Chodesh	Sat Sun Dec 15-16
66	46	1 CDCL	10	Fact of Tabet	Tue Dec 23
46		Sharat	1	Fast of Tebet	Mon Ian 14 1018
	Ohramia	d the following day			

GREEK CHURCH AND RUSSIAN CALENDAR, A. D. 1917, A. M. 8026

June 12 Holy Ghost.....

New	Holy	Ole	1	Ivew	Holy	Olu	ă.
Style	Davs	. Sty	le	Style	Days Peter & Paul—Chief Apostles	Styl	le
Tan. 14	Circumcision	Jan.	1	July 12	Peter & Paul—Chief Apostles	June	29
10	Epiphany (Theophany)	"	6	Aug. 19	Transfiguration Repose of Theotokos St. Alexander Nevsky*	Aug.	6
Feb 11	Carnival Sunday		29	" 28	Repose of Theotokos	*** ***	15
16 15	Hypopante (Purification)	Feb.	2	Sept. 12	St. Alexander Nevsky*	"	30
66 OF	Trimet Complexe in Lond	**	17	** 77	Rivalitation of "		14
A 1	Dalm Sunday	Mich	10	Oct. 14	Patronage of "	UCL.	1
(6 0	Haly Dacoba (Factor)	**	26	1)ec. 4	Entrance of Incorokos		41
May 6	St. George	Apr.	25	" 22	Conception of "	Dec.	19
46 477	Assention (Holar) Thur	M av	4	TUTX			
*4 07	Constitution of Employees	66	1.4	Tan 7	Christmas	Dec.	25
66 27	Pentecost		14	14	Circumcision	Jan.	1
T 12	Hele Chost	46	30	* Ob	served only in Russia.		

MOHAMMEDAN CALENDAR, Year 1335-36

The year 1335 is the 15th year of the 45th cycle of 30 years

7	Month	,		Lasts	1	Montl	h	_ \	Lasts
Year	No	Name	Begins	davs	Year	No.	Name	Begins	days
	140.	Rabia II	Tan 25	29	1335	11	Dulkaeda	.Aug. 19	30
1335	4	Tomhadi I	Fah 23		- "	12	Dulheggia	. Sept. 18	29
	5	Jomnaul I	3.f.L 25	20	1226	1	Muharrem	Oct. 17	30
66	6	" II	. MCH. 23	29	1330	4	Saphar	Nov 16	20
46	7	Rajeb	Apr. 23	30		4	Rabia I	Dec. 15	30
66	8	Sheban	May 23	29		3	Kapia 1	T 14	20
66	ō	Ramadan (Fasting)	June 21	30	66	4	" II	. Jan. 14,	29
66	10	Schawall.	July 21	29				1918	

THE TWELVE SIGNS OF THE ZODIAC.

THE RAM. Aries, THEAD & FACE. BULL. TWINS. Taurus. П Gemini. The Neck. The Arms. CRAB. LION. 9 R Cancer: Leo. The Heart. The Breast BALANCE VIRGIN. Libra. 117 Virgo. The Bowels. The Reins. ARCHER SCORPION. Sagittarius.
The Thighs. Scorpio.
The Loins. GOAT. WATERMAN. quarius. The Legs. Capricornus The Knees.

FISHES. Pisces: THE FEET.

ECLIPSES, 1917

There will be seven eclipses this year—the greatest number being taken as the Moon's apparent diameter. The different possible in any one year, four of the Sun and three of the Moon phases of the eclipse will be visible as follows:

as follows:

I. Total of the Moon Jan. 8, wholly visible throughout North America and partially in South America; the beginning will be visible in central and western Europe, N. W. Africa and the central and eastern Pacific regions; the ending in N. E. Asia and E. Australia.

As shown in the annexed cut the Moon will pass from W. As shown in the annexed cut the Moon will pass from W. to E. through the shadow of the earth while at her descending node so that she will make her exit from the shadow nearly her entire diameter further south than when she entered it, causing her to be more than totally eclipsed, or 16.4 digits; 12 digits



Partial			Middle or Greatest
begins		Total	eclipse
at a	4	begins	at b
H. M.		Н. М.	н. м.
0 42 morn.		1 52 morn.	2 37 morn.
0 50 morn.		2 00 morn.	2 45 morn.

II. Partial of the Sun Jan. 23, visible more or less in E.

II. Partial of the Sun Jan. 23, visible more or less in E. Europe, western Asia and northern Africa.

III. Partial of the Sun June 18-19, more or less visible in northern and central Asia and British America. In the United States on the Pacific coast, the Sun will rise more or less eclipsed on its northern limb, on the morning of the 19th, and a very small eclipse will be visible in N. Idaho, N. Oregon, Wash. and N. W. Montana. No part of the eclipse will be visible south of a line from Boise, Idaho to Helena, Montana.

IV. Total of the Moon July 4, invisible in United States. The beginning visible in Africa and partially so in Asia and Europe; the ending in Europe, Africa and South America.

V. Partial of the Sun July 16, very small and around the south-polar regions.

VI. Annular of the Sun Dec. 14, visible as a partial eclipse at sunrise on the coast of Argentina and southern Brazil and at sunset in southern Australia. The path of the annular phase cuts the South pole.

at sunset in southern Austrana. The path of the annuar phase cuts the South pole.

VII. Total of the Moon Dec. 28, wholly visible throughout North America and the beginning in South America. Size 12.1 digits or a trifle more than total, as shown in the annexed cut. The moon will be at her descending node at the time of this eclipse and hence will be further south at the end than she was at the beginning of the eclipse, as shown.

3	Total ends . M. 21 morn.	Partial ends at c H. M. 4 31 morn. in Washington Mean Time
. 3	29 morn.	4 39 morn, in Eastern Standard Time
		Account.

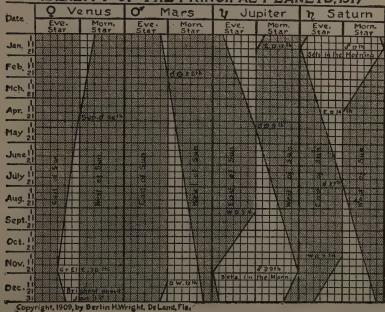


Eclipse of Moon Jan 8; 1917

THE CHILD OF SHE VALLE PRINCES WHEN	O GD TOTO	
	Wash.	Eastern
`	Mean	Standard
	Time	Time*
	M.	H. M.
Beginning of Partial Phase 2	57 morn.	3 5 morn.
" Total " 4	30 "	4 8 "
Middle or Greatest Eclipse 4		4 46 "
End of Total Phase 4		4 55 "
" " Partial " 6	19 "	6 27 "
	. 49	

Mountain, Pacific Alaskan and Hawaiian Time.

VISIBILITY OF THE PRINCIPAL PLANETS, 1917



Explanation: The light spaces show the approximate time and 3 h. or 45° E. of sun last of November; Jupiter invisible in and extent of visibility and, with the superior planets, the degree May, rising with the sun and brightest (180° from the sun for brilliancy also. Thus Venus will be 2 h. or 30° W. of the sun in November and December, setting at sunrise—an All Night Jan. r; invisible the latter part of Apr. and first part of May

PLANETS, BRIGHTEST OR BEST SEEN, INVISIBLE OR DIM

EVENING, MORNING OR ALL NIGHT STARS

EVENING, MORNING OR ALL NIGHT STARS

MORNING STARS, west of the Sun.

Mercury, Feb. 1-10 and Oct. 1-10, rising near the break of day
near the sunrise point of the horizon.

Venus, until Apr. 26, or as long as visible.

Mars, from Feb. 28 to Dec. 12.

Jupiter, from May 9 to Sept. 5.

Salurn, from July 27 to Nov. 7.

EVENING STARS, east of the sun.

Mercury, Jan. 1-10, Apr. 5-15 and Dec. 15-25, setting at or
near the close of evening twilight near the sunset point of
the horizon. the horizon.

Venus, after Apr. 26, or from time when first visible. Mars, until Feb. 28 and after Dec. 12. Jupiter, until May 9 and after Sept. 3. Saturn, until July 27 and after Nov. 7.

Brightest or Best Seen

Mercury, within the time limits given above when an Evening Jupiter, in November and December. or Morning Star.

Venus, best seen in Nov.-Dec. and Jan. 1918, Mars, at the close of the year.
Jupiter, in Nov. and Dec.
Saiter, in January.
Uranus, in August.
Neptune, in January.

Invisible or Very Dim

Mercury, at all other times not included within the dates given above when an Evening or Morning Star.

Venus, in April and May.

Mars, in February and March.

Jupiter, from Apr. 25 to May 20.

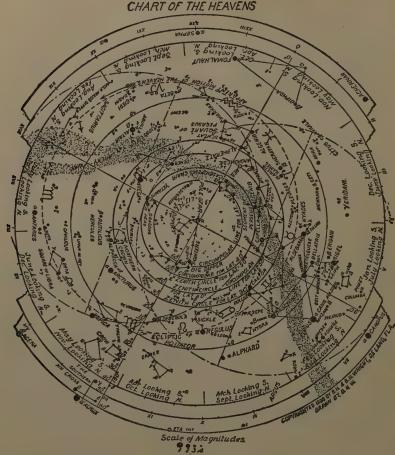
Saiurn, in July and August.

Uranus, and Neptune, always.

All Night Stars or Planets

THE SEASONS (EASTERN STANDARD TIME)

<u>@</u>	enters	sign	\$ 6 .5	Long.	90°,	Winter Spring Summer	. "	1917.	June	21.	7:14	eve.	66	66	D. 89 92 93	H. 0 19 14	M. 39 36 47 45	
ec	66	66	∽ ,	"		Autumi		1917,			10:01				365	18	45	



EXPLANATION

The Chart of the Heavens shows all the bright stars and groups visible in the U. S., Canada, Cuba and Hawaii. Stars of the 3d Magnitude are sometimes shown in order to complete

of the 3d Magnitude are sometimes shown in other to complete a figure.

If a bright, uncharted body be seen near the "Ecliptic Circle" it must be a planet. To locate the planets or Moon, refer to the monthly calendar pages in this Almanac, find the proper signs on the chart in the "Ecliptic Circle" and an inspection of that part of the Heavens, comparing with the Chart, will serve to identify the planet and all surrounding objects.

Because of the Earth's motion from W. to E. (opposite to the direction of the arrow in the chart), the stars rise 4 m. earlier each day or 30 m. per week, or 2 hrs. a month. The chart shows the position at 9 p. m. Then if the position for any other hour

be desired, as for 7 p. m., count ahead one month, or back one month for 11 p. m., and so on for any hour of the night, holding the month desired in front as the face looks either to the North or South with name down.

A circle described from the zenith on the "Zenith Circle" for the desired Lat., with a radius of 90 degrees (see graduated meridian) will show what stars are above the horizon. Thus Capella is near the overhead (zenith) point on Lat. 40 degrees N. Jan. 15th, 9 p. m., as will be "Big Dipper" at 3 a. m. Then from these stars all the surrounding visible groups can be identified. The "Pointers" being 5 degrees apart and always in sight may be used as a convenient unit of measure; also when visible, the "Belt of Orion" 3 degrees, or the sides of the "Square of Pegasus."

ASTRONOMICAL CHARACTERS

Sun Mercury. Venus. Mars.

Jupiter. Saturn. Uranus. eptune. A Runs high. Runs low. 8 Opposition.
Conjunction. Ouadrature.

Ω Ascending Node. U Descending Node. Perigee, near (1) og., far from ⊕ First Quarter. Full Moon. Last Quarter. New Moon.

STORY OF OUR WORLD FAMILY FOR A. D. 1917-A. M. 2,000,000

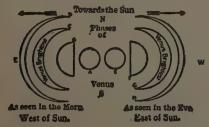
The Sun

In tracing the relationship, origin and age of living and fossil In tracing the relationship, origin and age of living and tossil forms, present conditions form the basis of all work, so likewise, in world-study or Astronomy. We know that the sun is a dark body surrounded by an envelope of burning gases, in which are all the elements that enter into the earth's structure. Therefore in the "beginning" of Genesis the earth and sun were one fore in the "beginning" of Genesis the earth and sun were one and likewise all the other members of this world family, and a knowledge of our natural laws is the key that opens the door and reveals to us conditions that obtain in other worlds, their weight, size, distance, etc. The bright solar envelope is sorn assunder with convulsions, revealing the dark interior (Sun Spots), large enough to roll a dozen earths into and when these are largest and most numerous, about every 11 years, the earth trembles in sympathy—evident in earthquakes, volcanic activity and unusual meteorological conditions—such was the year 1915. Possibly the incessant bombardments of the European war may have added to the general disturbance.

camic activity and unusual meteorological conditions—such was the year 1915. Possibly the incessant bombardments of the European war may have added to the general disturbance. During total eclipses of the sun opportunity is afforded to steal many of his secrets, especially in such eclipses as are of longest totality, as in 1933, 1980, 2009 and 2038, which leaves much time for gain in knowledge and improvement in apparatus. Mercury, because of his nearness to the sun, is invisible most of the time, and is therefore the least known of our family of naked-eye worlds. Special endeavor must always be made to see him, by knowing the time and place to look and then he shows up gloriously. This year the conditions will be most favorable near the "break o' day" Feb. 1-10 and Oct. 1-10 and near the close of twilight Jan. 1-10, Apr. 5-15 and Dec. 15-20; always seek him near the sunrise point of the horizon in the morning and the sunset point in the evening. When an unusually bright "star" is seen at these times and places the observer may be certain of having seen the youngest of our world family to whom no descendants of moons have been vouchsafed, so far as we know.

Venus, the goddess of beauty, will not, however, attract much attention until the evenings of fall and winter, being invisible the latter part of April when hidden from us by the sun and only dimly visible for weeks before and after that owing to her great distance from us and proximity to the sun. Indeed the will appear 17 times lawyer in December them.

her great distance from us and proximity to the sun. Indeed she will appear 17 times larger in December than in May, even though at the first date she will present quite her full phase while at the last date she will only show a thin crescent or New Moon phase.—see the annexed cut and explanation:



April 11, 1917. -Not in 1917 but in April, 1918. -Not in 1917 but in March, 1918. -Not in 1917 but in February, 1918.

About May 11, 1917.
About May 11, 1917.
About November 30, 1917.
-Not in 1917 but about January 1, 1918.
-Not in 1917 but early in February, 1918.

By comparing her itinerary, herewith given, with the Chart of the Heavens, which can be obtained in large size of Berlin H. Wright, Deland, Fla., for 50 cents, much satisfaction will result, as the relative positions and names of the constellational groups and stars will soon be acquired—for who can fail to reap happiness from such knowledge?

ness from such knowledge?

At the beginning of the year Venus will be in Scorpio and about 10° N. E. of the red star Antares; enters the western boundary of the Milky Way about Jan. 8, emerging on its eastern side on the 20th and at the end of the handle of the Milkmaid's Dipper; 1° N. of Moon Jan. 21 and less than 3° S. of Mercury

Jan. 30. On Feb. 20 the moon will overtake her while in Capricornus just south of the two bright stars in the horns of the Goat, and pass 3° to the south of her, her phase being nearly like A or E in above cut. We will pass on over the period when she is unfavorably situated and pick up her course from July 1, when she will be found midway between Praesepethe Bee Hive—and Pollux in Gemini, close to Saturn (1° N.) July 4 and in line with Castor and Pollux 5° N. W. of her, setting at 9 p. m. with Procyon 15° S. W. and Sirius 15° still further S. W., July 26 a little N. of Regulus, in the end of the handle of the Sickle in Leo, making an attractive grouping of interesting objects. Praesepe or the Bee Hive which is easily visible to the naked eye on a line joining Venus and Regulus, becomes beautiful under the slightest optical aid, bringing out a wealth of glittering suns. This is only one of the numerous "Island Universes" of the heavens, similar to the Galaxy or Milky Way. Imagine our own sun and family in the midst of Milky Way. Imagine our own sun and family in the midst of

Milky Way. Imagine our own sun and family in the midst of such a group of suns, each far brighter than our brightest stars or planets, satellites, comets, etc., with their ever recurring phenomena! This group has been repeatedly mistaken for a comet and early observers called it the "Nebula of Cancer" but even a good night glass causes its filmy appearance to disappear and brings out the swarms of twinkling suns.

The latter part of August she will be 10° S. from Denebola in Leo and 6° N. of the moon Aug. 20; by the 10th of September she will be less than 2° N. of Spica Virginis and 4° N. of the moon Sept. 19 and 30° S. of Arcturus on the 20th, entering the Square of Libra Oct. 1. In this vicinity will be found the Northern Crown and 15° to the left of it and on a line connecting it with Vega Lyra, is to be seen, as a dim patch of light, another vast "Island Universe" in the constellation Hercules. This is the largest and richest of the naked-eye star groups and which,

Vega Lyra, is to be seen, as a dim patch of light, another vast "Island Universe" in the constellation Hercules. This is the largest and richest of the naked-eye star groups and which, before the time of telescopes, was supposed to be a great nebula, even a small instrument will so bring out its glories as to compel exclamations of wonder.

By Oct. 15-20 Venus will have passed into Scorpio; close to and N. of Antares and complete her circuit of the heavens, being close to the moon Oct. 19 (an occultation in southern latitudes). During November she passes through the constellation Sagittarius just above or N. of the Milkmaid's Dipper and will be 4° S. of the moon Nov. 18; will reach her greatest angular distance from the Sun (4° 18') Nov. 30, when a line from the N. Star through the Great Cross to Aquila, and extended 30° will reach her. Note that the "Apex of the Heavens" is shown on the chart between Lyra and the Great Cross. It is about this point that our family is revolving. She will be in line with Polaris, Deneb and Job's Coffin Dec. 10 and 30° S. of the last and finally attaining her greatest brilliancy and passing 5° S. of the Moon Dec. 31.

Mars will not be a conspicuous object at any time during the year, because of his nearness to the Sun—not in real, but angular distance (see chart). Being in conjunction with the Sun Feb. 28 he will be quite invisible in February and March. When first easily seen, in June, he will be in close company with Jupiter, being nearest him June 8 when only ¾° north of him, rising about 3 a. m. with the Pleiades just north of them; 10° N. of the Moon July 16 and passing just N. of Aldebaran in the Hyades near the end of July; Aug. 1 midway between Betelguese and Capella and Aug. 14th ½° N. of the Moon; Aug. 20 in line with Sirius and Castor, forming a neat triangle with Castor and Pollux; 3° N. of the Moon Sept. 11 and Sept. 20 in the Bee Hive; 4° N. of Saturn Oct. 1—a beautiful sight just E. of the Bee Hive; 4° N. of Saturn Oct. 1. a beautiful sight just E. of the Bee Hive;

April, 1918.

Jupiter will be on the meridian about 7 p. m. Jan. 1 and may be found about 10° S. E. of Algenib at the S. E. corner of the Great Square of Pegasus and 30° directly S. of the only naked-eye nebula—the "Great Nebula of Andromeda," easily to be seen, when well above the horizon in the absence of the moon, on a line connecting Jupiter with the base of Cassiopeia's Chair. Many letters we receive from people who mistake this for a comet as its form is much elongated—or spindle shaped. With a moderate glass stars may be seen shining through its filmy mass. Such was the mass of all the matter now embodied in our world family many millions of years ago, or in the "beginning" of the Mosaic account of creation. Along from the middle to the last of June after Jupiter has

passed the Sun and is to be seen on the other, west side of him, as a Morning Star, he will be about midway between the Pleiades and Hyades and the latter part of August 5° N. of Aldebaran. He will go a little further E. until midway between Aldebaran and El Nath and then retrograde or go back westward until the end of the year. His visible near approaches to the Moon will be as follows: Jan. 1, 29, Feb. 25, Mch. 25, Apr. 22, July 14, Aug. 11, Sept. 7, Oct. 5, Nov. 1, 28, Dec. 25 in all of which he will be from 3° to 6° south; at E. quadrature Sept. 3 and at opposition or 180° from the Sun Nov. 29. Nov. 29.

Salurn will appear to the best advantage at or near the be-ginning of the year and at its close, being in both instances an All Night Star and rising near sunset (see chart). No use to seek him in July or August. January 1 he will be in Gemini

and about 5° S. of Pollux and in line with that star and Castor, with the Bee Hive a few degrees east, and he will be retrograding or going W. past the stars until April when he will be between Procyon and Pollux and he will advance the remainder of the year. His close approach to Mars was mentioned under that head. Castor is the finest double star in the heavens. Extra good eyesight unaided, shows the companion star and the slightest optical aid brings them out plainly. His near approaches to the Moon will be as follows: Jan. 9, 1° N., Feb. 5, Mch. 4, 31, 34° N., April 28, 1° N., May 25, 134° N., Oct. 10, 334° N., Nov. 6 and Dec. 4, 4° N.

No attention is given to Uranus or Neptune as the latter is never to be seen except with good telescope and knowledge of place and the former is only just discernible to the normal eye when at his very brightest and no moonlight.

LONGITUDINAL TIME IN LARGEST CITIES

STANDAILD TI		

LATER			

Name of Time Belt	Degrees	Central Meridian from Greenwich	Definitions.—Meridian: A plane passing through the vertical and parallel to the earth's axis of rotation.
Intercolonial or Atlantic	. 75	4 hours west. 5 hours west.	Latitude: The angle between the horizontal plane and the earth's axis of rotation. Longitude: The angle (in degrees or hours) between the meridian and the prime meridian, usually the meridian of
Central. Mountain. Pacific.	. 105	6 hours west. 7 hours west. 8 hours west.	meridian and the prime meridian, usually the meridian of Greenwich. Longitude is reckaned east or west from any given meridian

Longitude is reckoned east or west from any given meridian called the Prime Meridian. Latitude is reckoned north or south from the equator. Latitude and longitude are coördinates that 150 15734 10 hrs. 31 min. west. fix the position of points on the earth's surface.

	ANNIVERSARIES.	

CHUMCH	CALLE		HITTHE PARTICIPATION AND CO.		
New Year's Day (Circumcision)	Tan.	1	St. BarnabasJu	une	11
Epiphany (12th Day)	Tan.	6	Nativity of John the BaptistJu	ine	24
Greek Church New Year's Day	Tan.	14	Peter and PaulJu	ma ,	29
Lee's Birthday	fan	19	Independence Day	ille	A
Conversion of St. Paul	Jan.	25	Orangeman's Day	llay	12
Purification B. V. M.		23	St. Swithen's Day.	ily	15
Septuagesima Sunday		7	Mary Magdalen	цу	
Sexagesima "	Feb.	11	St. James	цу	22
Lincoln's Birthday	Feb.	12	Transfiguration A	пу	25
St. Valentine's Day	Feb.		Mana of Tana	ug.	0
Ouinquagesima Sunday		18	Name of Jesus	ug.	.7
Ash Wednesday (Lent begins).		21	reast of Assumption b. v. M	ug.	15
Washington's Birthday			St. Bartholomew	ug.	24
		22	St. John the Baptist beheaded	ug.	29
Quadragesima Sunday		25	Labor Day except in certain StatesSe	pt.	4
Ember Days		28	Nativity of MarySe	ept.	8
Ember Days.		2,3	Exaltation of Holy CrossSe	ept.	14
St. Patrick's Day		17	Jewish New Year's DaySe	ept.	17
Mid Lent Sunday		18	Ember DaysSe	pt. 19, 21,	. 22
Passion Sunday	Mch.	25	St. MatthewSe	ept.	21
Annunciation (Lady Day)		25	MichaelmasSe	ept.	29
Palm Sunday	April	1	Mohammedan New Year's Day	ct.	17
Good Friday	April	6	St. Luke	ct.	18
Easter Sunday	April	8	Simon and Jude	ct.	28
Low Sunday		15	Halloween	ct.	31
St. George	April	23	All Saints' Day	OV.	1
St. Mark	April	25	All Souls' Day	OV.	2
Memorial Day (Southern)	April	28	St. Catherine	OV	25
Philip and James	May	. 1	Thanksgiving Day	ON	29
Rogation Sunday	May	13	St. AndrewN	OV.	30
Mothers' Day	May	15	TSI Sunday in Advent	100	30
Ascension (Holy) Thr	May	17	Conception B. V. M	00.	4
Pentecost (Whitsunday)	May	27	Ember DaysD	10 04	00
Memorial Day (Northern)	May	. 30	Christmas	ec. 19, 21,	, 22
Ember Days.	May	30	St. Stephen	ec.	25
Ember Days	Tune	1, 2	St. John the Evangelist	ec.	26
Trinity Sunday.	Tune	-, -	Holy Innecents	ec.	27
Corpus Christi	Tune	: 7	Holy InnocentsD	ec.	46

DAY CALCULATING TABLE

FOR ASCERTAINING NUMBER OF DAYS BETWEEN ANY TWO DAYS WITHIN TWO YEARS.

	_							_		-		-		===	_		Z	<u> </u>	<u>.</u>	-2	CA L	1441	44	_	٠.,	_		_			-	
1	Dec.	200	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	129	730
	Nov.	1			_		-				=			_	=			=							_		_	_		869		
	Oet.			_			_		-	-		-	-		-	-	-	-		_			-	-			_		_	1 199		•
	Sept.	-	_	-	-	=		=	-	_		=	-		-				-	-	_	_	_		_	_	_	_		637 6		:
	Aug.	1	_	-	_	_		-	=				=		-		-	_	-	-		_	_		_	_	_			9 909		80
	July /	+	-	-	_		=				-		-		-	-					-	-			_		_		_	575 6		
LE II	June	+	_		_	-			-	-	-				_		-	-							_	_				545 5	_	
TABLE	May J	+		_	_			_		-	-	-			_	=				-	_	_	=		-		_		_	514 5	_	•
	Apr. W	1	-	-	_					-	-	-	-		-	-				-							-	-	_			51
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	. Mar.	-	-	_	-	-								-			-			-					_		_		÷	. 453	• 454	• 455
	Feb.	-						403			_	_			_	-	_			_	_	-	_		_	_	_	_	_	:	:	:
	Jan	366	367	368	369	870	371	372	373	874	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396
	Day	-	~	m	4	70	9	4	∞	6	2	=	12	13	14	15	16	17	18	19	20	21	77	23	4	72	38	27	78	53	30	31
	Dec.	335	336	337	338	339	340	341	342	843	844	3.45	346	347	348	340	350	351	352	353	354	355	356	357	338	859	360	361	362	363	364	365
	Nov.	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	320	327	878	379	330	331	332	333	334	
	Oct.	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	290	167	298	299	300	301	302	303	304
	Sept.	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	202	2002	707	208	500	270	271	272	273	:
	Aug.	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	407	233	007	131	238	239	240	241	242	243
	July	182	183	184	185	186	187	188	189	8	151	192	193	194	195	9 9 9	197	198	199	200	201	202	507	204	207	2007	207	208	200	210	211	212
TABLE 1	June	152	153	154	133	156	157	1.58	139	160	161	162	163	164	16,5	166	167	168	169	077	171	172	577	174	24.5	1/0	177	178	179	180	181	
ŢĀ	May	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	757	041	141	751	247	377	C#1	140	147	148	149	150	151
	Apr.	91	92	93	94	93	%	97	86	66	100	101	102	103	25	103	907	107	89	3	077	111	110	217	*1	211	110		118	119	770	:
	Mar.	09		_				-					-	_	_	-	_				-	-	-						-			06
	Feb.	32	_					_	-	_				_		_					_	_	_		_					-	_	
1	Jan. F	=	C4	(0)	41.1	ום ו	0		-		_	-			_				-	-				_			_			. 29	_	
}	Day Ja	 #		60	wii :					_					_			-				-				_						-
	A			_						,	-	-1 ;	-1 1	-1 -	-	-	7	7 .	1 7	4 6	4 6	4 0	4 6	4 6	4 6	4.0	4 6	4 0	4 6	4 6		

Rule: --- Ascertain by Table I. the namber of days from the first of the two days, and from Table II. the number of days from the second, and deduct the former from the latter.

Example: — How many days are these between September 14 and July 68 Against September 14 in Table L sind 261; against July 6 in Table II. Sind 532: 552-257 == 295 the answer

* In lesp years 1 day must be added after February 28

CHRONOLOGY-THIRD YEAR OF GREAT WAR

Aug. 3.—Sir Roger Casement is hanged.

Aug. 4.—Turkish troops attack British positions in Egypt,
but are repulsed with heavy losses. French recapture Thiaumont.

Aug. 6.—British troops advance 500 yards from Pozieres.
 Baron Wimborne appointed Lord Lieutenant of Ireland.
 Aug. 7.—Turks recapture Bitlis in Asia Minor from Russian

troops. Austrian aeroplanes raid Venice.
Aug. 9.—Italians capture Goritzia. Zeppelins raid the east

Germany claims that seventy-four merchantmen were sunk by submarines during July.

Aug. 17.—General Ruzsky is appointed commander in chief of the northern armies of Russia.

Aug. 19.—British cruisers Nottingham and Falmouth sunk by German submarines in North Sea. Aug. 24.—French and British troops make further gains on Oct. Somme front.

ug. 28.—Roumania declares war on Austria-Hungary

Aug. 29.—Roumanian army begins invasion of Transylvania in

two directions.

Aug. 30.—Field-Marshal von Hindenburg succeeds General von Falkenhayn as Chief of the General Staff of the Ger-

Sept. 1.—Italians in Albania and Serbians in Macedonia begin offensives against Bulgarians. Greek army joins rebellion against King.

against King.

Sept. 2.—French fleet captures seven Teuton merchant vessels in the Greek harbor of Piraeus.

Sept. 3.—Dar es Salam, German East Africa, taken by British forces. Zeppelins raid London. Roumanians capture six towns in Transylvania.

Sept. 4.—Allies' secret police arrest German propagandists in Athens. Teutonic allies under von Mackensen invade Dobrudia, a Roumanian province.

Dobrudja, a Roumanian province. Sept. 5.—Russians claim to have captured 20,000 Austrians in

Sept. 5.—Russians claim to have captured 20,000 Austrians in two weeks.
Sept. 10.—Von Mackensen takes Silistria.
Sept. 15.—Lloyd George, British War Minister, denies misuse of mail to obtain American trade secrets.
Sept. 17.—Serbians defeat Bulgarians at Kaimakcalan. German Admiralty issues statement that "126 hostile merchant ships totalling 170,679 tons and 35 neutral vessels totalling 38,568 tons, were destroyed by submarines during August." August."
Sept. 18.—Austrians aided by Turkish troops force Russians

to retreat.

Sept. 19.—Roumanians are defeated by Germans at Szurduk

Pass and retreat toward Constantza.

Sept. 21.—Revolution headed by ex-Premier Venezelos, breaks

out in Crete.

Sept. 23.—British advance on Trentino front.

Sept. 25.—British advance on Combles and take three towns.

Zeppelins, in raid on English coast, kill 36 and wound 26 non-combatants.

26 non-compatants.

26 non-compatants.

Sept. 26.—Allies capture Combles and Thiepval. Turks drive Russians back 22 miles in Persia.

Sept. 30.—Roumanians in Transylvania, are forced to retreat. British losses for September are 111,549 officers and men. Oct. 1.—Zeppelin shot down near London.

Oct. 2.—Roumanian troops cross into Bulgaria.

Oct. 5.—Cunard liner Franconia is torpedoed in the Mediterraneau.

Oct. 7.—British capture five Bulgarian villages. German sub-marine U-53 arrives at Newport, R. I.
Oct. 8.—Six vessels torpedoed off Nantucket Island by sub-marine U-53. Austro-Germans retake Kronstadt.
Oct. 9.—2 U-boats sunk off Archangel by Russian torpedo-

boat.

offensive in the Carpathians.

Oct. 17.—Allies seize remaining three Greek battleships and land marines at Piraeus. Germans repulse Russians on Volhynian front and take 1,900 prisoners. Oct. 18.—Sailly-Saillisel falls to the French after hard fighting.

Oct. 19.—Serbians advance in Macedonia and capture Brod. Oct. 20.—Three British transports are sunk in the Mediter-Panean, by submarines. Germans regain ground lost to the British in the Somme sector. Serbians make advances east of Monastir. Von Mackensen resumes offensive in

Aug. 9.—Italians capture Goritzia. Zeppeiins raid the east coast of England causing twenty-three casualties.

Aug. 10.—Russians are forced to retreat in Persia. Stanislau is captured by the Russians.

Aug. 15.—Flict forces close in on German East Africa.

Aug. 16.—French make brilliant advances on the Somme front.

Commence and the Somme foot.

Commence and the Somme front.

Commence and the Somme foot.

Commence and the Somme foot.

Commence the Somme foo

capture Russian positions southeast of Lemberg.

Oct. 23.—Constantza, Roumania's chief port of the Black Sea, is captured by the Teutons.

Oct. 24.—Germans drive the Roumanians sixteen miles and capture 6,700 prisoners. French retake Douaumont, Thiaumont and two miles of trenches, taken by Germans by two months' fighting.

Oct. 25.—Tchernavoda falls to von Mackensen's army. Von Falkenhayn storms Vulcan Pass and reaches point 75 miles from Bukharest.

Oct. 26.—Ten German destroyers raid English Channel and sink a torpedo-boat destroyer and seven vessels.

Oct. 27.—Teutons drive the Roumanian army forty miles past Tchernavoda.

Tchernavoda.

Oct. 28.—Steamship Lanco, flying American flag, sunk by submarine

Oct. 29.—Capt. Boelke, famous German aviator, is killed in aeroplane battle. Roumanians check German advances. Oct. 30.—British steamship Marina is torpedoed by German submarine off Irish coast. Six Americans drowned. Oct. 31.—British losses for October are 4,331 officers and 102,702

men. Nov. 1.—Submarine Deutschland arrives at New London, Conn., with a \$10,000,000 cargo. British capture three villages on Macedonian front. Von Falkenhayn's forces drive Rounanians twelve miles inside border.

Nov. 2.—Italians gain on twelve mile front and capture 5,000 prisoners. Fort Vaux is evacuated by the German army. Nov. 3.—Italians continue to advance and take 3,500 more

prisoners. Nov. 5.—French take two more towns outside of Verdun.
Russian Poland is proclaimed an independent state by
Germany and Austria-Hungary.
Nov. 7.—Arabia, a passenger vessel, is sunk by German

submarine. Nov. 8.—Belgium protests against deportations of its able-bodied men, by German officials. Nov. 9.—Chancellor von Bethmann-Hollweg declares Germany

Nov. 9.—Chancellor von Bethmann-Hollweg declares Germany is ready to enter a league of peace on condition it insures freedom of the seas. Roumanians retake Hirsova in the Dobrudja and drive Germans back. U-boats break through British blockade and raid French coast.
Nov. 12.—French, under General Foch recapture Saillisel.
Nov. 14.—U. S. protests to Germany on the deportation of the Belgiaus. British capture Beaucort and 5,000 prisoners. Great Britain rejects U. S. demand to lift blacklist.
Nov. 16.—Allies drive to within four miles of Monastir and take twelve towns.

twelve towns.

Nov. 19.—Serbians recapture Monastir.

Nov. 19.—Serbians recapture Monastr.

Nov. 21.—Emperor Francis Joseph of Austria-Hungary dies and is succeeded by Karl Francis Joseph. Craiova, Roumania captured by von Falkenhayn.

Nov. 22.—Britannic, transporting wounded soldiers sunk by German Submarine in Aegean Sea.

Nov. 23.—France appoints a Minister of Provisions to control

food supply.

Nov. 24.—Orsova is captured by von Mackensen.
Nov. 28.—Two Zeppelins are shot down in England.
Dec. 3.—Lloyd George, British Secretary for War, resigns.
Dec. 4.—Germans shell Bukharest.

boat.

Oct. 12.—Italians claim to have taken 30,881 prisoners since August 6. French press toward Morval.

Oct. 13.—Von Falkenhayn's forces recapture all of Transylvania recently occupied by the Roumanians. Italians force Austrians to retire on Carso front.

Oct. 16.—Allies recognize provisional government set up by expremer Venizelos on Island of Crete. Teutons begin offensive in the Carnathians.

cabinet members.

VOTE FOR PRESIDENT, 1916

The list of votes given below were the latest obtainable be fore this book went to press.

		Electe	oral 1	Vote	Popular	Vote
State	Demo	cratic	Rei	oublican	Wilson	Hughes
Alabama.		12			89,000	
Arizona		3			29,641	19,363
Arkansas.		9			85,000	37,000
California.		13			466,269	162 020
Colorado.					158,257	462,838
Connecticu				7	00,437	95,716
Delaware.				3	99,687	
Florida					26,111	
			• • • •		60,000	12,000
Georgia					109,200	. 28,000
Idaho					68,000	. 54,500
Illinois				29	869,152	1,044,608
Indiana.				15	333,466	. 339,437
Iowa				13	215,918	279,085
Kansas		10			315,000	277,000
Kentucky.					219,000	. 193,000
Louisiana		10			68,000	9,000
Maine				6	64,148	. 69,491
Maryland.		8			133,211	
Massachus				18	247,327	268,361
Michigan.				15	237,114	308,122
Minnesota				12	176,577	177,285
Mississipp					91,000	5,000
Missouri .					376,000	245,000
Montana.						
Nebraska					80,927	54,608
					134,000	114,000
Nevada					12,448	9,842
New Ham					42,905	42,723
New Jerse				14	209,332	. 264,320
New Mexi					34,545	33,251
New York				45	756,010	. 863,987
North Car					158,000	. 110,000
North Dal	cota				54,449	52,831
Ohio		24			578,000	
Oklahoma		10			140,000	. 110,000
Oregon				5	116,550	. 123,570
Pennsylva	nia			38	510,747	. 695,734
Rhode Isla	ınd			5	39,353	. 44.159
South Car	olina	_9			68,000	
South Dak	ota			5	45,449	50,892
Tennessee		12			138,647	. 97,553
Texas		20			228,000	58,000
Utah		4			77,381	48,948
Vermont.				4	21,832	. 38,254
Virginia		12			60,107	
Washingto				· · · · · ·	197,000	
West Virgi			<i>.</i>	8	139,013	
Wisconsin		2		13	194,000	. 220,000
Wyoming		3			25,617	. 19,998
		07.6		055	0.500.000	0.400.000
					8,599,390	
Plural	ity	21			400,070	

Allen L. Benson the Socialist candidate for President re-

Ceived about 1,300,000 votes.

Frank J. Hanley, the Prohibition candidate for President received about 350,000 votes.

These votes are the largest amount ever polled by either

PROHIBITION STATES
Prohibition now exists in almost every state of the Union.
Some states have state-wide prohibition and others have prohibition in counties and towns, local option. Following is a list of partial or state-wide prohibition states.

GRAIN STANDARD ACT

The United States Grain Standards Act became a law August 11, 1916. The act authorized the Secretary of Agriculture to investigate the handling and grading of grain and to establish, as soon as might be, standards for corn, wheat, rye, oats, barley, flaxseed and other grains. Not less than ninety days' public notice must be given in advance of the date on which any such standard becomes effective. Whenever such standards are established for any grain, the act forbids the shipment or delivery for shipment, in interstate or foreign commerce originating in the United States, or any such grain which is sold, offered for sale, or consigned for sale by grade, unless it is inspected and graded by a licensed inspector, either at the place of shipment, at a point in transit, or at the destination. In case no licensed inspector is located either at the point of destination, the grain may be shipped without inspection, in which event either party to the transaction may refer any dispute as to the grade to the Secretary of Agriculture.

NEW AMERICAN AVIATION RECORD.

Two aviation records were surpassed, when Miss Ruth Law flew from Chicago to Hornell, N. Y., a distance of 592 miles without a stop. After another stop at Binghamton, she arrived at New York City, on Nov. 20, 1916, flying 897 miles in 8 hrs. and 55½ min., traveling at the rate of 100 miles per dors also the World's record for women. The World's non-stop record and also the World's record for women. The World's non-stop record is 812½ miles, made by Sub-Lieut. Marchal of France, on July 20, 1916.

R	ESIDENT, 1916 xxvii
	AlabamaState-wide.
-	AlaskaThroughout the territory.
	ArizonaState-wide.
	ArkansasState-wide.
	California In some towns, local option.
0	ColoradoState-wide.
3	DelawareIn some towns in Kent and Sussex counties, local option.
0	FloridaIn some towns, local option, forty-five coun-
8	ties dry, nine wet.
6	GeorgiaState-wide.
8	IdahoState-wide.
9	Illinois In central and southern cities and towns, local
0	option, fifty-three counties dry, forty-nine
0	wet. Indiana
8	local option.
7	Town State wide
5	Vancos State wide
0	KentuckyIn one hundred five counties out of one hun-
0	dred twenty, local option.
0	LouisianaIn some towns, local option.
1	MaineState-wide.
3	MichiganState-wide.
1 3 1 2 5	MinnesotaIn forty-five counties out of eighty-six, county
2	option.
5	Mississippi State-wide.
0	Missouri In eighty-one counties out of one hundred and
0	fourteen, local ontion.
8	fourteen, local option. MontanaState-wide.
0	Nehraska State-wide
2	New Jersey In some towns, local option.
3	New YorkIn some towns, local option.
0	North Carolina State-wide.
17	North Dakota State-wide.
	OklahomaState-wide.
0	OregonState-wide.
1	Rhode Island In some towns, local option.

South Carolina. . State-wide. South Dakota . . . State-wide. TennesseeState-wide. Texas.....One hundred seventy-eight counties dry, fifty-two almost dry, twenty wet. Utah.....Largely dry

Utah.....Largely dry.
Vermont...Two hundred twenty-six towns dry, twenty
wet, local option.
Virginia...State-wide.
Washington...State-wide.
West Virginia...State-wide.
Wisconsin...In some towns, local option.
In the election of November 7, 1916, four states, and Alaska namely: Michigan, Montana, Nebraska and South Dakota, voted for state-wide prohibition amendments. The majorities were very large, especially in Alaska where the vote was nearly two to one in favor of the amendment.
In California, two amendments, one for complete prohibition while the other was for a restrictive sale of liquor measure, put before the voters were both defeated.

before the voters were both defeated.

PROHIBITION IN FOREIGN COUNTRIES

With British Columbia's entrance into the "Dry" ranks by the recent election, Canada now has prohibition in all her provinces with the exception of New Brunswick and Quebec. New Brunswick, however will join the "Drys" in 1917.

On November 26, 1915, Newfoundland accepted prohibition by a majority of four hundred four votes.

Prohibition was established in Iceland in 1915.

France prohibits the sale of absinthe, and Russia prohibits the sale of vodka.

at the point of destination, the grain may be shipped without inspection, in which event either party to the transaction may refer any dispute as to the grade to the Secretary of Agriculture.

GOVERNORS OF STATES OF UNITED STATES

State Governor Party	Term Term Years Expire		Governor	Party	Term Years	Expires
Alabama Charles Henderson I Arizona George W. P. Hunt. I Arkansas. Chas. H. Brough I I. California Hiram W. Johnson. P. Colorado Julius C. Gunter. I Gonnecticut Marcus H. Holcomb. R. Delaware. John G. Townsend. F. Florida. Sidney J. Catts. Proh. Georgia. Hugh M. Dorsey. I Idaho. Moses Alexander. I Illinois. Frank O. Lowden I. Illinois. Frank O. Lowden I. Illinois. Frank O. Lowden. J. Illinois. J. Mariana. Ruffin G. Pleasant. I. Louisiana. Ruffin G. Pleasant. I. Louisiana. Ruffin G. Pleasant. I. Mariana. Sam'l. W. McCall. J. Michigan. Albert S. Sleeper. J. Minesota. J. A. A. Burnquist. J. Mississippi. Theo. C. Bilbo. J. Missisopi. Frederick D. Gardner. J. Montana. Samuel V. Stewart. J.	2 Jan. — 2 Jan. — 4 Jan. — 2 Jan. — 4 Jan. — 2 Jan. — 4 Jan. — 2 Jan. — 4 Jan. — 2 Jan. — 2 Jan. — 4 Jan. — 2 Jan. — 4 Jan. — 2 Jan. — 2 Jan. — 1 Jan. — 1 Jan. — 2 Jan. — 1 Jan. — 1 Jan. — 2 Jan. — 1 Jan. — 1 Jan. 1, 1 Jan. 1, 1 Jan. 1, 1 Jan. —	Nevada	Keith Neville Emmet D. Boyle. Henry W. Keyes. Walter E. Edge E. C. DeBaca Charles S. Whitma Thomas H. Bicket Lynn J. Frazier James M. Cox R. L. Williams. James Withycomb M. C. Brumbaugh R. L. Beeckman. Richard I. Mannin Peter Norbeck. Thomas C. Rye James E. Ferguson Simon Bamberger. Horace F. Graham H. C. Stuart Ernest Lister John J. Cornwell. E. L. Phillipp J. B. Kendrick		23524224	Jan. — 1919 Jan. — 1919 Jan. — 1919 Jan. — 1919 Jan. 15, 1920 Dec. — 1921 Dec. 31, 1918 Jan. — 1921 Jan. — 1921 Jan. — 1919 Jan. 17, 1919 Jan. 17, 1919 Jan. — 1921 Jan. — 1921 Jan. — 1921

INDUSTRIAL PROGRESS FROM WASHINGTON TO WILSON				
1790. 1791. 1793. 1807. 1811. 1812.	WASHINGTON TO MADISON American sailing ship circles the globe. Anthracite coal in Pennsylvania. Whitney's cotton gin. Clermont steams up the Hudson. Steamboats on the Ohio. Steamboats on the Mississippi.	1878. 1880. 1883,	LINCOLN TO CLEVELAND Bessemer Steel first manufactured. Union Pacific completed. Bell telephone. Edison electric light. Broadway lighted by electricity. Electric railway (in Baltimore). Natural gas discovered.	
1819.	MADISON TO VAN BUREN Steamboats on the great lakes; first savings bank (in Philadelphia).		CLEVELAND TO WILSON Gold in Alaska. Linotype typesetting machines.	
1820.	Savannah steams to Liverpool in 26 days. Steamboat runs from New York to New Orleans. Eric Canal opened.	1890. 1893.	American pig iron output surpasses Great Britain's. Great Northern R. R. built to coast. Long distance electric power transmission.	
1830. 1831.	Fourteen miles of B. & O. R. R. opened. First American locomotive.	1397.	Opening up of foreign markets for American manufactures.	
1034,	McCormick reaper. VAN BUREN TO LINCOLN	1906.	Steel Corporation. Wireless telegraphy across the ocean. Electric trains on the N. Y. Central.	
1841.	Morse telegraph. Sewing machine.	1908. 1909.	American battleship fleet circles the globe. Air ships fly about New York Harbor. Practicability of Aeroplane,	
1844. 1849.	Telegraph from Baltimore to Washington. Gold stamped to California; first screw propeller Copper mines on the lakes. New York Clearing House opened.	1913. 1914. 1914.	Panama Canal completed. Perfection of Wireless Telephony. Gyroscopic stabilizer: gyroscope compass. Thermophone.	
1858.	Sleeping cars used.		Wireless telephone put in operation.	

A GENERATION	OF	DISASTROUS FIRES	7
Date and building Do	eaths	Date and building)eaths
Dec. 5, 1876, Brooklyn Theatre, Brooklyn	289	Mar. 4, 1908, school, Collingwood, Ohio	174
Dec. 8, 1881, Ring Theatre, Vienna, Austria	350	Jan. 4, 1908, Rhodes Theatre, Boyertown, Pa	169
April 30, 1884, poorhouse, Van Buren County, Mich	30	Feb. 2, 1909, theatre in Acapulco, Mexico	
Feb. 12, 1885, Blockley Almshouse, Philadelphia	50		145
May 25, 1887, Opera Comique, Paris	200	Aug. 26, 1911, moving picture theatre, Canonsburg, Pa.	
Sept. 4, 1887, theatre, Exeter, England	200	Jan. 9, 1912, Equitable Life Bldg., 120 B'way, N. Y. C	
Mar. 21, 1888, Banquet Theatre, Portugal	200	Nov. 23, 1912, Starch factory, Waukegan, Ill	25
July 21, 1889, building at Lu-Chow, China	400	Apr. 23,1912, Mine explosion, Pittsburgh, Pa	
Jan. 9, 1890, Shantung Theater, China	250	Aug. 2, 1913, Mine explosion, Tower City	18
Feb. 6, 1892, Hotel Royal, New York City	28	Aug. 3, 1913, Mine explosion, Glasgow, Scotland	. 22
April 27, 1892, Central Theatre, Philadelphia		Oct. 14, 1913, Mine explosion, Cardiff, Wales	
Aug. 12, 1896, Ching Un Dist. Theatre, China	200	Dec. 3, 1913, Lodging house, Boston, Mass	30
May 4, 1897, Charity Bazaar, Paris	150		. 72
Mar. 17, 1899, Windsor Hotel, N. Y. City	45	June 25, 1914, Salem, Mass. 1.000 buildings	. 4
June 30, 1900, Hoboken piers and ships	145	Oct. 28, 1915, Parochial School, Peabody, Mass	. 21
Sept. 20, 1902, Shiloh Baptist Church, Birmingham, Ala.	115	July 30, 1916, Ammunition explosion, Black Tom Island	ī.
Dec. 30, 1903, Iroquois Theatre, Chicago	602	Jersey City, N. J. loss of \$20,000,000	. 2

65th CONGRESS OF THE UNITED STATES, 1917

UNITED STATES SENATE

	dent	. Term Expir		NEBRASKA	Home Address
Secre	taryJames M. Baker, D. C.	1919	George W. Norris, 1	Ŗ <u>.</u>	McCook
Term	ALABAMA Home Address		Gilbert M. Hitchco	ck, D NEVADA	Omaha
Expir 1921	Oscar W. Underwood, DBirmingham	1921 1923	Francis G. Newland Key Pittman, D	ls, D	Tonapah
1919	Oscar W. Underwood, D. Birmingham John H. Bankhead, D. Jasper ARIZONA	1919	NEW Hallis D	HAMPSHIRE	Duapan
1923	Henry F. Ashurst, DPrescott	1921	Jacob H. Gallinger,	Ř	Concord
1921	Henry F. Ashurst, D. Prescott Marcus A. Smith, D. Tucson ARKANSAS	1919	William Hughes D	EW JERSEY	Potomon
1923	William F. Kirby, D. Little Rock Joe T. Robinson, D. Lonoke	1923	Jos. S. Frelinghuyse	n, R	Raritan
1919			Andrieus A. Tones.	W MEXICO	Las Vegas
1921 1923	James D. Phelan, D	1919	Albert B. Fall, R.	EW VORK	Three Rivers
	James D. Phelan, D. San Francisco Hiram W. Johnson, R. San Francisco COLORADO	1921	Andrieus A. Jones, Albert B. Fall, R N James W. Wadswor William M. Calder, NORT	th, Jr., R	Groveland
1921 1919	Charles S. I nomas, D	1923	William M. Calder, NORT	R H CAROLINA	Brooklyn
1921	CONNECTICUT Frank B Brandone B New Landon	1919 1921	Tar C O	шона, да	Newbern
1923	John F. Sharroth, D. Denver CONNECTICUT Frank B. Brandegee, R. New London George P. McLean, R. Simsbury J. O. Wolcott, D. Wilmington	1721	, NOR	TH DAKOTA	
1923	I. O. Wolcott, D	1921 1923	Asle J. Gronna, R. Porter J. McCumbe	r. R	Lakota
1919	Willard Saulsbury, D		Atlan Damarana D	OHIO	Cont
1921	Duncan U. Fletcher, D Jacksonville	1923	Atlee Pomerene, D. Warren G. Harding	, Ř	
1923	Park M. Trammel, D	1921	Thomas P. Gore, D	KLAHOMA	Lawton
1919	Thomas W. Hardwick, D Sandersville	1919	Thomas P. Gore, D. Robert L. Owen, D.	ODECON	Muskogee
1921	IDAHO	1919	Harry Lane, D George E. Chamber PEN Boies Penrose, R	UKEGUN	Portland
1919 1921	William E. Borah, R Boise	1921	George E. Chamber	lain, D NSVLVANIA	Portland
	ILLINOIS S S S S S S S S S S S S S S S S S S	1921 1923	Boies Penrose, R	70	Philadelphia
1921 1919	FLORIDA Jacksonville Park M. Trammel, D	1923	RHC	DE ISLAND	Fittsburgh
1921	INDIANA Tames F Watson R Rushville	1923 1919	Peter G. Gerry, D. LeBaron B. Colt. R.		Warwick Neck
1923	Harry S. New, R Indianapolis	1919	Policy Person R	H CAROLINA	Tours
1921	INDIANA James E. Watson, R	1919	Ellison D. Smith, D		Florence
1919	William S. Kenyon, RFort Dodge	1921	Ed S Johnson D	TH DAKOTA	
1921	KANSAS Topeka William H. Thompson, D	1919	I nomas Sterung, K.	NNESSEE	Vermilion
1919	William H. Thompson, D	1923	K. D. McKellar, D.	MMESSEE	Memphis
1919 1921	Ollie M. James, D	1919	K. D. McKellar, D. John K. Shields, D.	TEXAS	Knoxville
	Ollie M. James, D. Marion J. C. W. Beckham, D. Frankfort LOUISIANA Lord F. Bangdell, D. Loke Providence	1919 1923	Morris Sheppard, D Charles A. Culberso		Texarkana
1919 1921	Joseph E. Ransdell, D. Lake Providence Robert F. Broussard, D. New Iberia MAINE Frederick Hale, R. Portland Bert M. Fernald, R. West Poland MARYLAND J. Erwin France, R. Baltimore John Walter Smith, D. Snow Hill MASSACHUSETTS Henry Cabot Lodge, R. Nahant	1923	Reed Smoot, R	UTAH	Danas
1022	MAINE Portland	1921 1923	Reed Smoot, R Wm. H. King, D		Salt Lake City
1923 1919	Bert M. Fernald, RWest Poland	4002	Compli C. Bago P.	ERMONT	
1923	MARYLAND I. Erwin France, R Baltimore	1923 1921	Carroll S. Page, R. William P. Dillingha	m, R	Montpelier
1921	John Walter Smith, DSnow Hill	1923	Claude A. Swanson.	IRGINIA D	Chatham
1923	Henry Cabot Lodge, RNahant	1919	Thomas S. Martin,	D	Charlottesville
1919	Henry Cabot Lodge, RNahant John W. Weeks, RWest Newton MICHIGAN	1923	Miles Poindexter, R		Spokane
1923 1919	Charles E. Townsend, R	1921	Wesley L. Jones, R. WES.	r VIRGINIA	North Yakima
	MINNESOTA C. P.	1919	Nathan Goff, R		Clarksburg
1923 1919	Frank B. Kellogg, R	1923	H. Sutherland, K	SCONSIN	
	MISSISSIPPI Renton	1923 1921	Robert M. LaFollett	e, R	Madison
1923 1919	James K. Vardaman, D	1010	Claude A. Swanson, Thomas S. Martin, WA' Miles Poindexter, R Wesley L. Jones, R. WES' Nathan Goff, R H. Sutherland, R Robert M. LaFollett Paul O. Husting, D W Francis E. Warren, J	YOMING	Cheverna
1923	MISSOURI Kansas City	1919 1923	John B. Kendrick, L.)	Cheyenne
1923	William J. Stone, DJefferson City	Repub	licans		
1919	MINNESOTA	Demo			
1923	Henry L. Myers, D	T	otal		96

HOUSE OF REPRESENTATIVES

Representatives are elected for two years by direct vote. Salary \$7,500 per year and mileage. Salary of Speaker, \$12,000

DIST. ALABAMA

1 Oscar L. Gray, D., Butler.

2 S. H. Dent, Jr., D., Montgomery.

3 Henry B. Steagall, D., Ozark.

4 Fred L. Blackmon, D., Anniston.

5 J. Thomas Heflin, D., Latayette.

6 W. B. Oliver, D., Tuscaloosa.

7 John L. Burnett, D., Gadsden.

8 Edward B. Almon, D., Tuscumbia.

9 George Huddleston, D., Birmingham.

10 William B. Bankhead, D., Jasper.

ARIZONA (At Large) Carl Hayden, D., Phoenix.

ARKANSAS
Thaddeus H. Caraway, D., Jonesboro.
William A. Oldfield, D., Batesville.
John N. Tillman, D., Fayetteville.
Otis Wingo, D., De Queen.
Henderson M. Jacoway, D., Dardanelle
Samuel M. Taylor, D., Pine Bluff.
William S. Goodwin, D., Warren.

CALIFORNIA

1 Clarence F. Lea, D., Santa Rosa.

2 John E. Raker, D., Alturas.

3 Charles F. Curry, R., Sacramento.

4 Julius Kahn, R., San Francisco.

5 John I. Nolan, D., San Francisco.

6 J. A. Elston, R., Berkeley.

7 Denver S. Church, D., Fresno.

8 Everis A. Hayes, R., San Jose.

9 Charles H. Randall, Proh., Los Angeles.

10 Henry Z. Osborne, R., Los Angeles.

11 William Kettner, D., San Diego.

COLORADO

1 Benj. C. Hilliard, D., Denver.

2 Charles B. Timberlake, R., Sterling.
3 Edward Keating, D., Pueblo.
4 E. T. Taylor, D., Glenwood Springs.

1 Augustus Lonergan, D., Hartford. 2 Richard P. Freeman, R., New London. 3 John Q. Tilson, R., New Haven. 4 Ebenezer J. Hill, R., Norwalk. 5 James P. Glynn, R., Winsted.

DELAWARE (At Large) Albert F. Polk, D., Georgetown.

FLORIDA
1 H. J. Drane, D., Lakeland.
2 Frank Clark, D., Gainesville.
3 Walter Kehoe, D., Pensacola.
4 W. J. Sears, D., Kissimmee.

GEORGIA

1 J. W. Overstreet, D., Statesboro.
2 Frank Park, D., Sylvester.
3 Charles R. Crisp, D., Americus.
4 William C. Adamson, D., Carrollton.
5 William S. Howard, D., Kirkwood.
6 J. W. Wise, D., Fayetteville.
7 Gordon Lee, D., Chickamauga.
8 Samuel J. Tribble, D., Athens.
9 Thomas M. Bell, D., Gainesville.
10 Carl Vinson, D., Milledgeville.
11 John R. Walker, D., Valdosta.
12 W. W. Larsen, D., Dublin.

IDAHO (At Large)
Burton L. French, R., Moscow.
Addison T. Smith, R., Twin Falls.

Dist. ILLINOIS (At Large)
William E. Mason, R., Chicago.
Medill McCornick, R., Chicago.
1 Martin B. Madden, R., Chicago.
2 James R. Mann, R., Chicago.
3 William W. Wilson, R., Chicago.
4 Charles Martin, D., Chicago.
5 Adolph J. Sabath, D., Chicago.
6 James McAndrews, D., Chicago.
7 Niels Joul, R., Chicago.
8 Thomas Gallagher, D., Chicago.
9 Fred A. Britten, R., Chicago.
10 George E. Foss, R., Chicago.
11 Ira C. Copley, P., Aurora.
12 Charles E. Fuller, R., Belvidere.
13 John C. McKenzie, R., Elizabeth.
14 William J. Graham, R., Aledo.
15 Edward J. King, R., Galesburg.
16 Clifford Ireland, R., Peoria
17 John A. Sterling, R., Bloomington.
18 Joseph G. Cannon, R., Danville.
19 William B. McKinley, R., Champaign
20 Henry T. Rainey, D., Carrollton.
21 Loren E. Wheeler, R., Springfield.
22 W. A. Rodenberg, R., East St. Louis.
23 Martin D. Foster, D., Quincy.
24 Thomas S. Williams, R., Louisville.
25 E. E. Denison, R., Marion.

INDIANA

1 George K. Denton, D., Evansville.
2 Oscar E. Bland, R., Linton.
3 William E. Cox, D., Iasper.
4 Lincoln Dixon, D., North Vernon.
5 Everett Sanders, R., Terre Haute.
6 D. W. Comstock, R., Richmond.
7 Merrill Moores, R., Indianapolis,
8 Albert H. Vestal, R., Anderson.
9 Fred S. Purnell, R., Attica.
10 William R. Wood, R., Lafayette.
11 Milton Krauss, R., Peru.
12 L. W. Fairfield, R., Angola.
13 Henry A. Barnhart, D., Rochester.

1 Charles A. Kennedy, R., Montrose.
2 Harry E. Hull, R., Williamsburg.
3 Burton E. Sweet, R., Waverly.
4 Gilbert N. Haugen, R., Northwood.
5 James W. Good, R., Cedar Rapids.
6 C. W. Ramsseyer, R., Bloomfield.
7 Cassius C. Dowell, R., Des Moines.
8 Horace M. Towner, R., Corning.
9 William R. Green, R., Council Bluffs.
10 Frank P. Woods, R., Estherville.
11 G. C. Scott, R., Sioux City.

KANSAS

Daniel R. Anthony, R., Leavenworth.

E. C. Little, R., Kansas City.

Philip P. Campbell, R., Pittsburg.

Loudey Doolittle, D., Strong City.

Guy T. Helvering, D., Maryville.

John R. Connelly, D., Colby.

Jouett Shouse, D., Kinsley.

W. A. Ayres, D., Wichita. KANSAS

KENTUCKY

Alben W. Barkley, D., Paducah.

David H. Kincheloe, D., Madisonville.

R. Y. Thomas, Jr., D., Central City.

Ben Johnson, D., Bardstown.

Swager Sherley, D., Louisville.

Arthur B. Rouse, D., Burlington.

James C. Cantrill, D., Georgetown.

Harvey Helm, D., Stanford.

DIST. KENTUCKY—Cont'd 9 William J. Fields, D., Olive Hill. 10 John W. Langley, R., Pikeville. 11 Caleb Powers, R., Barbourville.

LOUISIANA
1 Albert Estopinal, D., Estopinal.
2 H. Garland Dupre, D., New Orleans.
3 W. P. Martin, P., Thibodaux.
4 John T. Watkins, D., Minden.
5 Riley J. Wilson, D., Harrisonburg.
6 Jared Y. Sanders, D., Franklin.
7 Ladislas Lazaro, D., Washington.
8 James B. Aswell, D., Natchitoches.

LOUISIANA

MAINE
1 Louis B. Goodall, R., Sanford.
2 Wallace H. White, Jr., R., Lewiston.
3 John A. Peters, R., Ellsworth.
4 Ira G. Hersey, R., Houlton.

MARYLAND

1 Jesse D. Price, D., Salisbury,
2 J. Fred C. Talbott, D., Lutherville,
3 Charles P. Coady, D., Baltimore,
4 J. Charles Linthicum, D., Baltimore,
5 Sydney E. Mudd, R., La Plata.

MASSACHUSETTS

1 Allen T. Treadway, R., Stockbridge.
2 Frederick H. Gillett, R., Springfield.
3 Calvin D. Paige, R., Southbridge.
4 Samuel E. Winslow, R., Worcester.
5 John J. Rogers, R., Lowell.
6 Augustus P. Gardner, R., Hamilton.
7 Michael F. Phelan, D., Lynn.
8 Frederick W. Dallinger, R., Cambridge,
9 Alvan T. Fuller, Ind.
10 Peter F. Tague, D., Boston.
11 George H. Tinkham, R., Boston.
12 James A. Gallivan, D., Boston.
13 William H. Carter, R., Needham.
14 Henry L. Kincaide, R., Quincy.
15 William S. Greene, R., Fall River.
16 Joseph Walsh, R., New Bedford.

MICHIGAN

1 Frank E. Doremus, D., Detroit.
2 Samuel W. Beakes, D., Ann Arbor.
3 John M. C. Smith, R., Charlotte.
4 Edward L. Hamilton, R., Niles.
5 Carl E. Mapes, R., Grand Rapids.
6 Patrick H. Kelley, R., Lansing.
7 Louis C. Cramton, R., Lapeer.
8 Joseph W. Fordney, R., Saginaw.
9 James C. McLaughlin, R., Muskegon.
10 Gilbert A. Currie, R., Midland.
11 Frank D. Scott, R., Alpena.
12 W. Frank James, R., Hancock.
13 Charles A. Nichols, R., Detroit.

MINNESOTA MINNESOTA

1 Sydney Anderson, R., Lanesboro.
2 Franklin F. Ellsworth, R., Mankato.
3 Charles R. Davis, R., St. Peter.
4 Carl C. Van Dyke, D., St. Paul.
5 Ernest Lundeen, R., Minneapolis.
6 Harold Knutson, R., St. Cloud.
7 Andrew J. Volstead, R., Granite Falls.
8 Clarence B. Miller, R., Duluth.
9 Halvor Steenerson, R., Crookston.
10 Thomas D. Schall, P., Minneapolis.

MISSISSIPPI 1 Ezekiel S. Candler, D., Corinth.

HOUSE OF REPRESENTATIVES-Cont'd

Dist. MISSISSIPPI—Cont'd

2 Hubert D. Stephens, D., New Albany.

3 B. G. Humphreys, D., Greenville.

4 Thomas U. Sisson, D., Winona.

5 William W. Venable, D., Meridian.

6 Bryon P. Harrison, D., Gulfport.

7 Percy E. Quin, D., McComb City.

8 James W. Collier, D., Vicksburg. DIST.

MISSOURI

Miston A. Romjue, D., Macon.

William W. Rucker, D., Keytesville.

Joshua W. Alexander, D., Gallitan.

William P. Borland, D., Kansas City.

Clement C. Dickinson, D., Clinton.

Courtney W. Hamlin, D., Springfield.

D. W. Shackleford, D., Jefferson City.

Champ Clark, D., Bowling Green.

Jacob E. Meeker, R., St. Louis.

Milliam L. Igoe, D., St. Louis.

William L. Igoe, D., St. Louis.

Malter L. Hensley, D., Farmington.

Joseph J. Russell, D., Charleston.

Perl D. Decker, D., Joplin.

Thomas L. Rubey, D., Lebanon.

MONTANA (At Large) John M. Evans, D., Missoula. Miss Jeannette Rankin, R., Missoula.

NEBRASKA

1 C. F. Reavis, R., Falls City.

2 Charles O. Lobeck, D., Omaha.

3 Dan V. Stephens, D., Fremont.

4 Charles H. Sloan, R., Geneva.

5 Ashton C. Shallenberger, D., Alma.

6 Moses P. Kinkaid, R., O'Neill.

NEVADA (At Large) E. E. Roberts, R., Carson City.

NEW HAMPSHIRE

1 Cyrus A. Sulloway, R., Manchester.

2 Edward H. Wason, R., Nashua.

NEW JERSEY

1 William J. Browning, R., Camden.
2 Isaac Bacharach, R., Atlantic City.
3 Robert Carson, R., New Brunswick.
4 Elijah C. Hutchinson, R., Trenton.
5 John H. Capstick, R., Montville.
6 John R. Ramsey, R., Hackensack.
7 Dow H. Drukker, R., Passaic.
8 Edward W. Gray, R., Newark.
9 Richard Wayne Parker, R., Newark.
10 Frederick R. Lehlbach, R., Newark.
11 John J. Eagan, D., Weehawken.
12 James A. Hamill, D., Jersey City.

NEW MEXICO (At Large) B. C. Hernandez, R., Tierra Amarilla.

NEW YORK

1 F. C. Hicks, R., Port Washington.
2 Charles P. Caldwell, D., Forest Hills.
3 Joseph V. Flynn, D., Brooklyn.
4 Harry H. Dale, D., Brooklyn.
5 James P. Maher, D., Brooklyn.
6 Frederick W. Rowe, R., Brooklyn.
7 John J. Fitzgerald, D., Brooklyn.
8 Daniel J. Griffin, D., Brooklyn.
9 Oscar W. Swift, R., Brooklyn.
10 Reuben L. Haskell, R., Brooklyn.
11 D. J. Riordan, D., New York City.
12 Meyer London, Soc., New York City.
13 Chris, D. Sullivan, D., New York City.
14 F. H. LaGuardia, R., New York City.
15 Michael F. Conry, D., New York City.

DIST. NEW YORK—Cont'd

16 Peter J. Dooling, D., New York City.

17 John F. Carew, D., New York City.

18 George B. Francis, R., New York City.

19 W. M. Chandler, R., New York City.

20 Issac Siegel, R., New York City.

21 G. Murray Hulbert, D., New York City.

22 Henry Bruckner, D., New York City.

23 Daniel C. Oliver, D., New York City.

24 W. R. Oglesby, D., New York City.

25 James A. Husted, R., Peckskill.

26 Edmund Platt, R., Poughkeepsie.

27 Charles B. Ward, R., Debruce.

28 Rollin B. Sanford, R., Slingerlands.

29 James S. Parker, R., Salem.

30 George R. Lunn, D., Schenectady

31 Betrand H. Snell, R., Potsdam.

32 Luther W. Mott, R., Oswego.

33 Homer P. Snyder, R., Little Falls.

34 George W. Fairchild, R., Oneonta.

35 Walter W. Magee, R., Syracuse.

36 Norman J. Gould, R., Seneca Falls.

37 Harry H. Pratt, R., Corning.

38 Thomas B. Dunn, R., Rochester.

39 Archie D. Sanders, R., Stafford.

40 S. Wallace Dempsey, R., Lockport.

41 Charles B. Smith, D., Buffalo.

43 Charles M. Hamilton, R., Ripley.

NORTH CAROLINA

NORTH CAROLINA

1 J. H. Small, D., Washington.

2 Claude Kitchin, D., Scotland Neck.

3 George E. Hood, D., Goldsboro.

4 Edward W. Pou, D., Smithfield.

5 Charles M. Stedman, D., Greensboro.

6 Hannibal L. Godwin, D., Dunn.

7 L. D. Robinson, D., Wadesboro.

8 R. L. Doughton, D., Laurel Springs.

9 Edwin Y. Webb, D., Shelby.

10 James J. Britt, R., Asheville.

NORTH DAKOTA

1 Henry T. Helgesen, R., Milton.

2 George M. Young, R., Valley City.

3 Patrick D. Norton, R., Hettinger.

OHIO

1 Nicholas Longworth, R., Cincinnati.
2 Victor Heintz, R., Cincinnati.
3 Warren Gard, D., Hamilton.
4 J. E. Russell, R., Sydney.
5 John S. Snook, D., Paulding.
6 Charles C. Kearns, R., Batavia.
7 Simeon D. Fess, R., Yellow Springs.
8 John A. Rey, D., Marion.
9 Isaac R. Sherwood, D., Toledo.
10 Robert M. Switzer, R., Gallipolis.
11 H. C. Claypool, D., Chillicothe.
12 Clement Brumbaugh, D., Columbus.
13 A. W. Overmyer, D., Fremont.
14 E. R. Bathrick, D., Akron.
15 George White, D., Marietta.
16 Roscoe C. McCulloch, R., Canton.
17 William A. Ashbrook, D., Johnstown.
18 D. A. Hollingsworth, R., Cadiz.
19 J. G. Cooper, R., Youngstown.
20 William Gordon, D., Cleveland.
21 Robert Crosser, D., Cleveland.
22 Henry I. Emerson, R., Cleveland.

OKLAHOMA

1 T. A. Chandler, R., Vinita.

2 W. W. Hastings, D., Talequah.

3 Charles D. Carter, D., Ardmore.

4 T. D. McKeown, D., Ada.

5 Joe B. Thompson, D., Pauls Valley.

6 Scott Ferris, D., Lawton.

7 James V. McClintic, D., Snyder.

DIST. OKLAHOMA—Cont'd 8 Dick T. Morgan, R., Woodward.

OREGON

1 William C. Hawley, R., Salem.

2 Nicholas J. Sinnott, R., The Dalles.

3 C. N. McArthur, R., Portland.

2 Ncholas J. Simoth, R., The Danies.
3 C. N. McArthur, R., Portland.

PENNSYLVANIA (At Large)
T. S. Crago, R., Waynesburg.
M. M. Garland, R., Pittsburgh,
Joseph McLaughlin, R., Philadelphia.
J. R. K. Scott, R., Philadelphia.
Uniliam S. Vare, R., Philadelphia.
George S. Graham, R., Philadelphia.
George W. Edmonds, R., Philadelphia.
F. E. Costello, R., Philadelphia.
George P. Darrow, R., Philadelphia.
Thomas S. Butler, R., West Chester.
Henry W. Watson, R., Langhorne.
William W. Griest, R., Lancaster.
John R. Farr, R., Scranton.
G. W. Templeton, R., Plymouth.
R. D. Heaton, R., Schandon.
L. T. McFardden, R., Canton.
L. C. W. Templeton, R., Philadelphia.
A. G. Dewalt, D., Allentown.
L. T. McFardden, R., Canton.
L. Charles H. R., Keise, R., Williamsport.
John V. Lesher, D., Sunbury.
Benjamin K. Focht, R., Lewisburg.
Aaron S. Kreider, R., Annville.
John M. Rose, R., Johnstown.
Andrew R. Brodeck, D., Hanover.
Charles H. Rowland, R., Philipsburg.
Bruce F. Sterling, D., Uniontown
Henry W. Temple, R., Washington.
Henry A. Clark, R., Erie
H. J. Steele, D., Easton.
Nathan L. Strong, R., Brookville.
O. D. Bleakley, R., Franklin.
W. H. Coleman, R., Pittsburgh.
Charles H. A., Philadelphia.
Charles H. R., Pittsburgh.

RHODE ISLAND
1 George F.O'Shaunessy, D., Providence.
2 Walter R. Stiness, R., Warwick.
3 Ambrose Kennedy, R., Woonsocket.

SOUTH CAROLINA

Richard S. Whaley, D., Charleston.
James F. Brynes, D., Aiken.
F. H. Dominick, D., Newberry.
S. J. Nichols, D., Spartanburg.
David E. Finley, D., York.
J. Willard Ragsdale, D., Florence.
Asbury F. Lever, D., Lexington.

SOUTH DAKOTA

1 Charles H. Dillon, R., Yankton.

2 Royal C. Johnson, R., Aberdeen.

3 Harry L. Gandy, D., Rapid City.

TENNESSEE

1 Sam R. Sells, R., Johnson City.
2 Richard W. Austin, R., Knoxville.
3 John A. Moon, D., Chattanooga.
4 Cordell Hull, D., Carthage.
5 William C. Houston, D., Woodbury.
6 Joseph W. Byrns, D., Nashville.
7 Lemuel P. Padgett, D., Columbia.
8 Thetus W. Sims, D., Linden.
9 Finis J. Garrett, D., Dresden.
10 Hubert Fisher, D., Memphis.

TEXAS (At Large) Daniel E. Garrett, D., Houston

IST. TEXAS—Cont'd Jeff. McLemore, D., Houston. Eugene Black, D., Clarksville. Martin Dies, D., Warren. James Young, D., Kaufman. Sam Rayburn, D., Bonham. Hatton W. Sumners, D., Dallas. Rufus Hardy, D., Corsicana. Alexander W. Gregg, D., Palestine. Jee H. Eagle, D., Houston. J. N. Mansfield, D., Wharton. James P. Buchanan, D., Brenham. Tom Connally, D., Marlin. James C. Wilson, D., Ft. Worth. Marvin Jones, D., Amarillo. James L. Slayden, D., San Antonio. John N. Garner, D., Uvalde. Thomas M. Blanton, D., Abilene. DIST.

10

UTAH Timothy C. Hoyt, R., Ogden. James H. Mays, D., Salt Lake City.

VERMONT Frank L. Greene, R., St. Albans. Porter H. Dale, R., Island Pond.

HOUSE OF REPRESENTATIVES-Cont'd VIRGINIA

Dist. VIRGINIA

1 William A. Jones, D., Warsaw.
2 Edward E. Holland, D., Suffolk.
3 Andrew J. Montague, D., Richmond.
4 W. A. Watson, D., Jennings Ordinary.
5 E. W. Saunders, D., Rockymount.
6 Carter Glass, D., Lynchburg.
7 Thomas W. Harrison, D., Winchester.
8 Charles C. Carlin, D., Alexandria.
9 Campbell B. Slemp, R., Big Stone Gap.
10 Henry D. Flood, D., Appomattox. DIST

WASHINGTON

1 John F. Miller, R., Seattle.

2 Lindley H. Hadley, R., Bellingham.

3 Albert Johnson, R., Hoquiam.

4 William L. La Follette, R., Pullman.

5 C. C. Dill, D., Spokane.

WEST VIRGINIA

1 Matthew M. Neely, D., Fairmont.
2 George M. Bowers, R., Martinsburg.
3 Stuart F. Reed, R., Charleston.
4 Harry C. Woodyard, R., Spencer.
5 Edward Cooper, R., Bramwell.
6 Adam B. Littlepage, D., Charleston.

WISCONSIN DIST. WISCONSIN

1 Henry A. Cooper, R., Racine.

Edward Voight, R., Sheboygan.

3 John M. Nelson, R., Madison.

4 William J. Cary, R., Milwaukee.

5 William H. Stafford, R., Milwaukee.

5 J. H. Davidson, R., Oshkosh.

7 John J. Esch, R., La Crosse.

Edward E. Browne, R., Waupaca.

9 David G. Classon, R., Oconto.

10 James A. Frear, R., Hudson.

11 Irvine L. Lenroet, R., Superior. DIST

WYOMING (At Large) Frank W. Mondell, R., Newcastle.

DELEGATES

ALASKA

Charles A. Sulzer, D. James Wickersham, R., Fairbanks,

HAWAII

J. Kuhio Kalanianaole, R., Honolulu.

WOMAN SUFFRAGE

WOMAN SUFFRAGE							
and the Territory of Alaska, as follows:	ates, New York—School suffrage (1880), tax-paying suffrage, local taxation in all towns and villages of the state (1991), women in all towns, villages and third class cities yote on bond-						
Numbet Date Women Granted gible to V	of ing propositions (1910) Eli- North Dakota—School suffrage (1887)						
Wyoming 1869 28,84 Colorado 1893 213,42 Utah 1896 85,72 Idabo 1896 69,81	So. Dakota—School suffrage (1887) Vermont—School suffrage (1880)						
Washington 1910 277,72 California 1911 671,38 Kansas 1912 438,93	States Repudiating Woman Suffrage						
Arizona 1912 43,89 Oregon 1912 169,00 Alaska 1913 11,00	Sufftage amendment are Delware, Georgia, Kentucky, Louisiana, Maine, Maryland, Mississippi, Missouri, Nebraska, Ohio and Virginia. In Maine both houses gave the measure a majority						
Montana	indersement but not the two-thirds vote required. In Missouri						

On October 17, 1915, New Jersey cast 133,282 votes for and 184,340 against Woman Suffrage.
On November 2, 1915, the following states cast votes against Woman Suffrage:
Massachusetts by 133,447 majority, New York by 188,313 majority and Pennsylvania by 56,686 majority.
On June 5, 1916, Iowa cast a referendum vote against woman suffrage, by a majority of 10,341.
On November 7, 1916, South Dakota and West Virginia, both defeated woman suffrage referendums by close majorities.

Partial Woman Suffrage

Partial Woman Suffrage

Partial woman suffrage exists in several States. The kind of suffrage and dates of establishment follow:
Connecticut—School suffrage (1893)
Delaware—School suffrage to tax-paying women (1898)
Illinois—The Illinois legislature passed a law by which Illinois women gain the right to vote for all officials not provided for by the State constitution. This includes Presidential electors and all county and municipal officers (1913). There are 1,567,491 wemen eligible to vote.
Iowa—Bond suffrage (1894), tax levies.
Kentucky—School suffrage to widows with children of school age (1838). Measure enlarged (1912).
Iouisiana—Tax-paying suffrage (1879)
Michigan—School suffrage (1875), taxpayers to vote on questions of local taxation and granting franchises (1908)
Minnesota—School suffrage (1875), library trustees (1898)
Mississippi—School suffrage (1880)
Nebraska—School suffrage (1880)
New Hampshire—School suffrage (1887)
New Jersey—School suffrage (1887)
New Jersey—School suffrage (1887)
New Mexico—School suffrage (1887)
New Mexico—School suffrage (1910)

States Repudiating Woman Suffrage

States whose legislatures have recently repudiated a woman suffrage amendment are Delware, Georgia, Kentucky, Louisiana, Maine, Maryland, Mississippi, Missouri, Nebraska, Ohio and Virginia. In Maine both houses gave the measure a majority indorsement but not the two-thirds vote required. In Missouri, after having been sent to engrossment by both houses, the bill was reconsidered and killed by the Senate.

To Enfranchise Women.

There are two ways through which women can be enfranchised—Congress can submit an amendment to the National Constitution, which must be ratified by three-fourths of the Legislatures; or the Legislature of each State can submit an amendment to its own constitution, which must be approved by the majority of the voters. The former would be the easier way, but the National American Woman Suffrage Association has realized that Congress would not act until a considerable number of States had first conferred the suffrage. Therefore, while it has appealed to every Congress since 1869, it has continually assisted the individual States in their struggle. The Legislature of a Territory can grant the suffrage without referendum, as can the Legislature of the State of Delaware.

Women Suffrage In Foreign Countries

Woman Suffrage In Foreign Countries

Woman suffrage exists in New Zealand, the six States of the Australian Federation, Finland, Notway, Denmark and Iceland. All women in Sweden have municipal suffrage. Isle of Man gives full Parliamentary suffrage to women tax-payers. England, Wales, Scotland and Ireland give municipal suffrage to women. In Canada full suffrage exists in Alberta, British Columbia, Manitoba and Saskatchewan, while municipal suffrage is given to property owning widows and spinsters in Ontario, Prince Edward Island and Quebec; to tax paying widows and spinsters in New Brunswick. Nova Scotia grants municipal suffrage to all property owning women, including married women whose husbands are not voters. Municipal suffrage is granted the women of Rangoon, capital of Burmah; Belize, capital of British Honduras; Baroda and Bombay, British India and the union of South Africa. Women have limited communal franchise rights in certain provinces of Austria, Hungary and Russia.

DECLARATION OF INDEPENDENCE

A movement to declare the independence of the Colonies in A movement to declare the independence of the Colonies in America was first taken up by delegates to the Congress in Philadelphia, May 10, 1776. On June 11, a committee of five was appointed to draw up a resolution. This committee consisted of Jefferson, J. Adams, Franklin, Sherman and Livingston. On July 1, Congress resolved itself into a committee of the whole to consider the resolution. Finally on July 4, 1776, the Declaration of Independence was agreed to and signed by John Hancock, president of the Congress and the delegates. This is the Declaration which established the United States in the eyes of the world as a free and independent country. world as a free and independent country.

When in the Course of human events, it becomes necessary for one people to dissolve the political bands which have connected them with another, and to assume among the powers of the earth, the separate and equal station to which the Laws of Nature and of Nature's God entitles them, a decent respect to the opinions of mankind requires that they should declare the

the opinions of mankind requires that they should declare the causes which impel them to the separation.

We hold these truths to be self-evident, that all men are created equal, that they are endowed by their Creator with certain unalienable Rights, that among these are Life, Liberty and the pursuit of Happiness. That to secure these rights, Governments are instituted among Men, deriving their just powers from the consent of the governed, That, whenever any Form of Government becomes destructive of these ends, it is the Right of the People to alter or to abolish it, and to institute a new Government, laying its foundation on such principles and oreanizing its powers in such form, as to them shall seem most organizing its powers in such form, as to them shall seem most likely to effect their Safety and Happiness. Prudence, indeed, will dictate that Governments long established should not be changed for light and transient causes; and accordingly all experience hath shewn that mankind are more disposed to suffer, while with a transfer to the suffer of th while evils are sufferable, than to right themselves by abolishing while evils are sufferable, than to right themselves by abolishing the forms to which they are accustomed. But when a long train of abuses and usurpations, pursuing invariably the same Object evinces a design to reduce them under absolute Despotism, it is their right, it is their duty, to throw off such Government, and to provide new Guards for their future security. Such has been the patient sufferance of these Colonies; and such is now the necessity which constrains them to alter their former Systems of Government. The history of the present King of Great Britain is a history of repeated injuries and usurpations, all having in direct object the establishment of an absolute Tyranny over these States. To prove this, let Facts be submitted to a candid world.

over these States. To prove this, let Facts be submitted to a candid world.

He has refused his Assent to Laws, the most wholesome and necessary for the public good.

He has forbidden his Governors to pass Laws of immediate and pressing importance, unless suspended in their operation till his Assent should be obtained; and when so suspended, he has utterly neglected to attend to them.

He has refused to pass other Laws for the accommodation of large districts of people, unless those people would relinquish the right of Representation in the Legislature, a right inestimable to them and formidable to tyrants only.

He has called together legislative bodies at places unusual, uncomfortable, and distant from the depository of their public Records, for the sole purpose of fatiguing them into compliance with his measures.

with his measures.

He has dissolved Representative Houses repeatedly, for opposing with manly firmness his invasions on the rights of the

He has refused for a long time, after such dissolutions, to cause others to be elected; whereby the Legislative powers, incapable of Annihilation, have returned to the People at large for their exercise; the State remaining in the meantime exposed to all the dangers of invasion from without, and convulsions

He has endeavored to prevent the population of these States; for that purpose obstructing the Laws for Naturalization of Foreigners; refusing to pass others to encourage their migrations hither, and raising the conditions of new Appropriations of

He has obstructed the Administration of Justice, by refusing his Assent to Laws for establishing Judiciary Powers. He has made Judges dependent on his Will alone, for the tenure of their offices, and the amount and payment of their

He has erected a multitude of New Offices, and sent hither

swarms of Officers to harass our people, and eat out their

substance.

He has kept among us, in times of peace, Standing Armies without the Consent of our legislature.

He has affected to render the Military independent of and superior to the Civil power.

He has combined with others to subject us to a jurisdiction foreign to our constitution, and unacknowledged by our laws; giving his Assent to their Acts of pretended Legislation:

For quartering large bodies of armed troops among us:
For protecting them, by a mock Trial, from punishment for
any Murders which they should commit on the Inhabitants of these States:

For cutting off our Trade with all parts of the world:

For imposing Taxes on us without our Consent: For depriving us in many cases, of the benefits of Trial by

jury:
For transporting us beyond Seas to be tried for pretended

For abolishing the free System of English Laws in a neigh-boring Province, establishing therein an Arbitrary government, and enlarging its Boundaries so as to render it at once an example and fit instrument for introducing the same absolute rule

For taking away our Charters, abolishing our most valuable Laws, and altering fundamentally the Forms of our Govern-

For suspending our own Legislatures, and declaring them-selves invested with power to legislate for us in all cases what-

soever.

He has abdicated Government here, by declaring us out of his Protection and waging War against us.

He has plundered our seas, ravaged our Coasts, burnt our towns, and destroyed the lives of our people.

He is at this time transporting large Armies of foreign Mercenaries to complete the works of death, desolation and tyranny, already begun with circumstances of Cruelty and perfody scarcely paralleled in the most barbarous ages, and totally unworthy the Head of a civilized nation.

He has constrained our fellow-Citizens taken captive on the

He has constrained our fellow-Citizens taken captive on the high Seas to bear Arms against their Country, to become the executioners of their friends and Brethren, or to fall themselves

by their Hands.

He has excited domestic insurrections amongst us, and has endeavored to bring on the Inhabitants of our frontiers, the merciless Indian Savages, whose known rule of warfare, is an undistinguished destruction of all ages, sexes and condi-

In every stage of these Oppressions Wé have Petitioned for Redress in the most humble terms:
Our repeated Petitions have been answered only by repeated injury. A Prince, whose character is thus marked by every act which may define a Tyrant, is unfit to be the ruler of a free

people.

Nor have We been wanting in attentions to our British

People.

Nor have We been wanting in attentions to our British brethren. We have warned them from time to time of attempts by their legislature to extend an unwarrantable jurisdiction over us. We have reminded them of the circumstances of our emigration and settlement here. We have appealed to their native justice and magnanimity, and we have conjured them by the ties of our common kindred to disavow these usurpations, which, would inevitably interrupt our connections and correspondence. They too have been deaf to the voice of justice and of consanguinity. We must, therefore, acquiesce in the necessity, which denounces our Separation, and hold them, as we hold the rest of mankind, Enemies in War, in Peace Friends.

WE, THEREFORE, the REPRESENTATIVES of the UNITED STATES OF AMERICA, IN GENERAL CONGRESS, Assembled, appealing to the Supreme Judge of the world for the rectitude of our intentions, do, in the Name, and by authority of the good People of these Colonies, solemnly PUBLISH and DECLARE, That these United Colonies are, and of Right ought to be FREE AND INDEPENDENT STATES that they are Absolved from all Allegiance to the British Crown, and that all political connection between them and the State of Great Britain, is and ought to be totally dissolved; and that as FREE AND INDEPENDENT STATES they have full Power to levy War, conclude Peace, contract Alliances, establish Commerce, and to do all other Acts and Things which INDEPENDENT STATES may of right do. And for the support of this Declaration, with a firm reliance on the protection of

DECLARATION OF INDEPENDENCE-Continued

Divine Providence, We mutually pledge to each other our Lives, our Fortunes, and our sacred Honor.

The foregoing declaration was, by order of congress, engrossed and signed by the following members: JOHN HANCOCK.

New Hampshire: William Williams, Oliver Wolcott.

William Whipple, New York: William Floyd, Phillip Livingston. Massachusetts Bay: Samuel Adams, John Adams, Robert Treat Paine, Elbridge Gerry. Rhode Island, Etc.: Stephen Hopkins, William Ellery.

Philip Livingston, Francis Lewis, Lewis Morris. New Jersey: Richard Stockton, John Witherspoon, Francis Hopkinson, John Hart, Abraham Clark. Connecticut: Roger Sherman, Samuel Huntington, Delaware: Cæsar Rodney,

George Read, Thomas McKean. Pennsylvania: Robert Morris, Benjamin Rush, Benjamin Franklin, John Morton, George Clymer, James Smith, George Taylor, James Wilson, George Ross. Maryland: Samuel Chase, William Paca, Thomas Stone. Charles Carroll of Carrollton. Virginia: George Wythe,

Richard Henry Lee, Thomas Jefferson, Benjamin Harrison, Thomas Nelson, Jr., Francis Lightfoot Lee, Carter Braxton. North Carolina: William Hooper, William Hooper,
Joseph Hewes,
John Penn.
South Carolina:
Edward Rutledge,
Thomas Heyward, Jr.,
Thomas Lynch, Jr.,
Arthur Middleton. Georgia: Button Gwinnett, Lyman Hall, George Walton.

ARTICLES OF CONFEDERATION

Ratified at Philadelphia, Pa., 9 July, 1778.

Articles of Confederation and Perpetual Union between the Articles of Confederation and Ferepetual Union between the States of New Hampshire, Massachusetts Bay, Rhode Island and Providence Plantations, Connecticut, New York, New Jersey, Pennsylvania, Delaware, Maryland, Virginia, North Carolina, South Carolina, and Georgia.

The village Aki, Carlo Article I

The stile of this Confederacy shall be "The United States of America."

ARTICLE II

Each State retains its sovereignty, freedom, and independence, and every power, jurisdiction, and right which is not by this confederation expressly delegated to the United States in Congress assembled.

The said States hereby severally enter into a firm league of friendship with each other, for their common defense, the security of their liberties, and their mutual and general welfare, binding themselves to assist each other against all force offered to, or attacks made upon them, or any of them, on account of religion, sovereignty, trade, or any other pretence whatever.

religion, sovereignty, trade, or any other pretence whatever.

ARTICLE IV

The better to secure and perpetuate mutual friendship and intercourse among the people of the different States in this Union, the free inhabitants of each of these States (paupers, vagabonds, and fugitives from justice excepted) shall be entitled to all privileges and immunities of free citizens in the several States; and the people of each State shall have free ingress and regress to and from any other State, and shall enjoy therein all the privileges of trade and commerce, subject to the same duties, impositions, and restrictions as the inhabitants thereof respectively; provided that such restrictions shall not extend so far as to prevent the removal of property imported into any State, to any other State of which the owner is an inhabitant; provided also that no imposition, duties, or restriction shall be laid by any State on the property of the United States, or either of them. or either of them.

If any person guilty of, or charged with, treason, felony, or other high misdemeanor in any State, shall flee from justice and be found in any of the United States, he shall, upon demand of the governor or executive power of the State from which he fled, be delivered up and removed to the State having jurisdiction of his offense.

Full faith and greatly shall be given in each of these States to

Full faith and credit shall be given in each of these States to the records, acts, and judicial proceedings of the courts and magistrates of every other State.

ARTICLE V

For the more convenient management of the general interests of the United States, delegates shall be annually appointed, in such manner as the legislature of each State shall direct, to meet in Congress on the first Monday in November in every year, with a power reserved to each State to recall its delegates,

or any of them, at any time within the year, and to send others or any of them, at any time within the year, and to send others in their stead for the remainder of the year. No State shall be represented in Congress by less than two nor by more than seven members; and no person shall be capable of being a delegate for more than three years in any term of six years; nor shall any person, being a delegate, be capable of holding any office under the United States for which he, or another for his benefit, receives any salary, fees, or emolument of any kind. Each State shall maintain its own delegates in a meeting of the States, and whils they are as members of the committee of the States. while they act as members of the committee of the States.

In determining questions in the United States, in Congress assembled, each State shall have one vote.

Freedom of speech and debate in Congress shall not be impeached or questioned in any court or place out of Congress; and the members of Congress shall be protected in their persons from arrests and imprisonments during the time of their going to and from and attendance on Congress, except for treason, felony, or breach of the peace.

ARTICLE VI

No State, without the consent of the United States in Congress assembled, shall send any embassy to, or receive any embassy from, or enter into any conference, agreement, alliance, or treaty, with any king, prince, or state; nor shall any person holding any office of profit or trust under the United States, or any of them, accept of any present, emolument, office, or title of any kind whatever from any king, prince, or foreign state; nor shall the United States, in Congress assembled, or any of them, grant any title of nobility.

No two or more States shall enter into any treaty, confedera-tion, or alliance whatever between them, without the consent of the United States, in Congress assembled, specifying accu-rately the purposes for which the same is to be entered into, and how long it shall continue.

No States shall lay any imposts or duties which may interfere No States shall lay any imposts or duties which may interfere with any stipulations in treaties entered into by the United States, in Congress assembled, with any king, prince, or state, in pursuance of any treaties already proposed by Congress to the courts of France and Spain. No vessels of war shall be kept up in time of peace by any State, except such number only as shall be deemed necessary by the United States, in Congress assembled, for the defense of such State or its trade; nor shall any body of forces be kept up by any State, in time of peace, except such number only as, in the judgment of the United States, in Congress assembled, shall be deemed requisite to garrison the forts necessary for the defense of such State; but every State shall always keep up a well-regulated and disciplined. every State shall always keep up a well-regulated and disciplined militia, sufficiently armed and accoutred, and shall provide and constantly have ready for use, in public stores, a due number of field pieces and tents, and a proper quantity of arms, ammunition and camp equipage,

No State shall engage in any war without the consent of the United States, in Congress assembled, unless such State be actually invaded by enemies, or shall have received certain adactually invaded by enemies, or shall have received certain advice of a resolution being formed by some nation of Indians to invade such State, and the danger is so imminent as not to admit of a delay till the United States, in Congress assembled, can be consulted; nor shall any State grant commissions to any ships or vessels of war, nor letters of marque or reprisal, expect it is effect adoptation of machine the United States. except it be after a declaration of war by the United States, in Congress assembled, and then only against the kingdom or state and the subjects thereof against which war has been so declared, and under such regulations as shall be established by the United States, in Congress assembled, unless such State be infested by pirates, in which case vessels of war may be fitted out for that occasion, and kept so long as the danger shall continue, or until the United States, in Congress assembled, shall determine otherwise.

ARTICLE VII

When land forces are raised by any State for the common defense, all officers of or under the rank of colonel shall be appointed by the legislature of each State respectively by whom such forces shall be raised, or in such manner as such State shall direct, and all vacancies shall be filled up by the State which first made the appointment.

ARTICLE VIII

All charges of war, and all other expenses that shall be incurred, for the common defense or general welfare, and allowed by the United States, in Congress assembled, shall be defrayed out of a common treasury, which shall be supplied by the several States, in proportion to the value of all land within each State, States, in proportion to the value of all land within each State, granted to, or surveyed for, any person, as such land and the buildings and improvements thereon shall be estimated according to such mode as the United States, in Congress assembled, shall from time to time direct and appoint. The taxes for paying that proportion shall be laid and levied by the authority and direction of the legislatures of the several States, within the time agreed upon by the United States, in Congress assembled.

ARTICLE IX The United States, in Congress assembled, shall have the sole and exclusive right and power of determining on peace and war, except in the cases mentioned in the sixth Article; of sendwar, except in the cases mentioned in the sixth Article; of sending and receiving ambassadors; entering into treaties and alliances, provided that no treaty of commerce shall be made whereby the legislative power of the respective States shall be restrained from imposing such imposts and duties on foreigners, as their own people are subjected to, or from prohibiting the exportation, or importation of any species of goods or commodities whatsoever; of establishing rules for deciding, in all cases, what captures on land or water shall be legal, and in what manner prizes taken by land or naval forces in the service of the United States shall be divided or appropriated; of granting letters of marque and reprisal in times of peace; appointing courts ters of marque and reprisal in times of peace; appointing courts for the trial of piracies and felonies committed on the high seas; and establishing courts for receiving and determining finally appeals in all cases of captures; provided that no member of Congress shall be appointed a judge of any of the said courts. The United States, in Congress assembled, shall also be the last resort on appeal in all disputes and differences now substituted that beginning that have the base resort on appeal in all disputes and differences now substitute that have the courts.

last resort on appear in an disputes and differences now sub-sisting, or that hereafter may arise, between two or more States concerning boundary jurisdiction, or any other cause whatever, which authority shall always be exercised in the manner fol-

Whenever the legislative or executive authority, or lawful agent of any State in controversy with another, shall present a petition to Congress, stating the matter in question, and praying for a hearing, notice thereof shall be given by order of Congress to the legislative or executive authority of the other State in controversy, and a day assigned for the appearance of the parties by their lawful agents, who shall then be directed to appoint, by joint consent, commissioners or judges to constitute a court for hearing and determining the matter in question; but if they cannot agree, Congress shall name three persons out of each of the United States, and from the list of such persons each party shall alternately strike out one, the petitioners beginning, until the number shall be reduced to thirteen; and from that number not less than seven, nor more than nine names, as Congress shall direct, shall, in the presence of Congress, be drawn out by lot; and the persons whose names shall be so drawn, or any five of them, shall be commissioners or judges, to hear and finally determine the controversy, so always

as a major part of the judges who shall hear the cause shall agree in the determination; and if either party shall neglect to attend at the day appointed, without showing reasons which Congress shall judge sufficient, or being present, shall refuse to strike, the Congress shall proceed to nominate three persons out strike, the Congress shall proceed to hominate three persons out of each State, and the secretary of Congress shall strike in behalf of such party absent or refusing; and the judgment and sentence of the court, to be appointed in the manner before prescribed, shall be final and conclusive; and if any of the parties shall refuse to submit to the authority of such court, or to appear to the proceeding the proceeding the proceeding the proceedings of the parties of the pear or defend their claim or cause, the court shall nevertheless proceed to pronounce sentence or judgment, which shall in like manner be final and decisive; the judgment or sentence and other proceedings being in either case transmitted to Congress. other proceedings being in erner case transmitted to congress, and lodged among the acts of Congress for the security of the parties concerned; provided, that every commissioner, before he sits in judgment, shall take an oath, to be administered by one of the judges of the Supreme or Superior court of the State where the cause shall be tried, "well and truly to hear and determine the matter in questions according to the best of bits." determine the matter in question, according to the best of his judgment, without favor, affection, or hope of reward." Provided, also, that no State shall be deprived of territory for the benefit of the United States.

All controversies concerning the private right of soil claimed All controverses concerning the private right of soir channed under different grants of two or more States, whose jurisdiction, as they may respect such lands, and the States which passed such grants, are adjusted, the said grants or either of them being at the same time claimed to have originated antecedent to such settlement of jurisdiction, shall, on the petition of either party to the Congress of the United States, be finally determined, as near as may be, in the same manner as is before pre-scribed for deciding disputes respecting territorial jurisdiction between different States.

The United States, in Congress assembled, shall also have the sole and exclusive right and power of regulating the alloy and value of coin struck by their own authority, or by that of the respective States; fixing the standard of weights and measures throughout the United States; regulating the trade and managing all affairs with the Indians not members of any of the States; provided that the legislative right of any State, within its own limits, be not infringed or violated; establishing and regulating postoffices from one State to another throughout all the United States, and exacting such postage on the papers passing thro' the same as may be requisite to defray the expenses of the said office; appointing all officers of the land forces in the service of the United States, excepting regimental officers; appointing all the officers of the naval forces, and commissioning all officers whatever in the service of the United States; making rules for the government and regulation of the said land and naval forces, and directing their operations.

The United States, in Congress assembled, shall have au-The United States, in Congress assembled, shall also have the

The United States, in Congress assembled, shall have authority to appoint a committee, to sit in the recess of Congress, to be denominated "A Committee of the States, and to consist to be denominated "A Committee of the States, and to consist of one delegate from each State; and to appoint such other committees and civil officers as may be necessary for managing the general affairs of the United States under their direction; to appoint one of their number to preside, provided that no person be allowed to serve in the office of president/more than one year in any term of three years; to ascertain the necessary sums of money to be raised for the service of the United States, and to appropriate and apply the same for defraying the public expenses; to borrow money or emit bills on the credit of the United States, transmitting every half year to the respective States an account of the sums of money so borrowed or emitted; States an account of the sums of money so borrowed or emitted; to build and equip a navy; to agree upon the number of land forces, and to make requisitions from each State for its quota, in proportion to the number of white inhabitants in such State, which requisition shall be binding; and thereupon the legislature of each State shall appoint the regimental officers, raise the men, and cloath, arm, and equip them in a soldier-like manner at the expense of the United States; and the officers and men so cloathed, armed, and equipped shall march to the place appointed, and within the time agreed on by the United States, in Congress assembled, but if the United States, in Congress assembled; but if the United States, in Congress assembled, shall, on consideration of circumstances, judge proper that any State should rouse men, or should raise a smaller number of men than the quota thereof, and that any other State should raise a greater number of men than the quota thereof, such extra number shall be raised, officered, cloathed, armed, and equipped in the same manner as the quota of such States an account of the sums of money so borrowed or emitted

State, unless the legislature of such State shall judge that such extra number cannot be safely spared out of the same, in which case they shall raise, officer, cloath, arm, and equip as many of such extra number as they judge can be safely spared, and the officers and men so cloathed, armed and equipped shall march to the place appointed, and within the time agreed on by the

United States, in Congress assembled.

The United States, in Congress assembled, shall never engage in a war, nor grant letters of marque and reprisal in time of peace, nor enter into any treaties or alliances, nor coin money, nor regulate the value thereof, nor ascertain the sums and ex nor regulate the value theology and acceptant he sunts and expenses necessary for the defence and welfare of the United States, or any of them, nor emit bills, nor borrow money on the credit of the United States, nor appropriate money nor agree upon the number of vessels of war to be built or purchased, or the number of lead or sea forces to be raised, nor appoint a commander-in-chief of the army or navy, unless nine States assent to the same, nor shall a question on any other point, except for adjourning from day to day, be determined, unless by the votes of a majority of the United States, in Congress assembled.

The Congress of the United States shall have power to adjourn to any time within the year, and to any place within the United States, so that no period of adjournment be for a longer duration than the space of six months, and shall publish the duration than the space of six months, and shall publish the journal of their proceedings monthly, except such parts thereof relating to treaties, alliances, or military operations as in their judgment require secresy; and the yeas and nays of the delegates of each State on any question, shall be entered on the journal, when it is desired by any delegate; and the delegates of a State, or any of them, at his or their request, shall be furnished with a transcript of the said journal, except such parts as are above excepted, to lay before the legislatures of the several States.

ARTICLE X

The committee of the States, or any nine of them, shall be authorized to execute, in the recess of Congress, such of the powers of Congress as the United States, in Congress assembled, by the consent of nine States, shall, from time to time, think expedient to vest them with; provided that no power be delegated to the said committee, for the exercise of which, by the Articles of Confederation, the voice of nine States, in the Congress of the United States assembled, is requisite.

ARTICLE XI

Canada acceding to this Confederation, and joining in the measures of the United States, shall be admitted into, and entitled to all the advantages of this Union; but no other colony shall be admitted into the same unless such admission be agreed to by nine States.

ARTICLE XII

All bills of credit emitted, monies borrowed, and debts contracted by or under the authority of Congress, before the assembling of the United States, in pursuance of the present Confederation, shall be deemed and considered as a charge against the United States, for payment and satisfaction whereof the said United States and the public faith are hereby solemnly

ARTICLE XIII

Every State shall abide by the determinations of the United States, in Congress assembled, on all questions which by this Confederation are submitted to them. And the Articles of this Confederation are summitted to them. And the Articles of this Confederation shall be inviolably observed by every State, and the Union shall be perpetual; nor shall any alteration at any time hereafter be made in any of them, unless such alteration be agreed to in a Congress of the United States, and be afterwards confirmed by the legislatures of every State.

WASHINGTON'S FAREWELL ADDRESS

To the people of the United States:

Here, perhaps, I ought to stop. But a solicitude for your welfare, which cannot end but with my life, and the apprehension of danger, natural to that solicitude, urge me, on an occasion of danger, natural to that solicitude, urge me, on an occasion like the present, to offer to your solemn contemplation, and to recommend to your frequent review, some sentiments which are the result of much reflection, of no inconsiderable observation, and which appear to me all important to the permanency of your felicity as a people. These will be offered to you with the more freedom, as you can only see in them the disinterested warnings of a parting friend, who can possibly have no personal motive to bias his counsel. Nor can I forget, as an encouragement to it, your indulgent reception of my sentiments on a former and not dissimilar occasion.

Interwoven as is the love of liberty with every ligament of

Interwoven as is the love of liberty with every ligament of your hearts, no recommendation of mine is necessary to fortify

or confirm the attachment.

your heatrs, not recommentations or him is interesting to thisyon confirm the attachment.

The unity of government which constitutes you one people, is also now dear to you. It is justly so; for it is a main pillar in the edifice of your real independence; the support of your tranquility at home; your peace abroad; of your safety; of your prosperity; of that very liberty which you so highly prize. But, as it is easy to foresee that, from different causes and from different quarters much pains will be taken, many artifices employed, to weaken in your minds the conviction of this truth; as this is the point in your political fortress against which the batteries of internal and external enemies will be most constantly and actively (though often covertly and insidiously) directed; it is of infinite moment, that you should properly estimate the immense value of your national union to your collective and individual happiness; that you should cherish a cordial, habitual, and immovable attachment to it; accustoming yourselves to think and speak of it as of the palladium of your political safety and prosperity; watching for its preservation political safety and prosperity; watching for its preservation with jealous anxiety; discountenancing whatever may suggest even a suspicion that it can, in any event, be abandoned; and indignantly frowning upon the first dawning of every attempt to

indigiantly frowing upon the first dawning of every attempt to alienate any portion of our country from the rest; or to enfeeble the sacred ties which now link together the various parts. For this you have every inducement of sympathy and interest. Citizens by birth, or choice, of a common country, that country has a right to concentrate your affections. The name of American, which belongs to you in your national capacity, must always exalt the just pride of patriotism, more than any appellation derived from local discriminations. With slight shades of

difference, you have the same religion, manners, habits, and political principles. You have, in a common cause, fought and triumphed together; the independence and liberty you possess, are the work of joint counsels, and joint efforts, of common dangers, sufferings and successe

dangers, sufferings and successes.

It is important likewise, that the habits of thinking in a free country should inspire caution in those intrusted with its administration, to confine themselves within their respective constitutional spheres, avoiding in the exercise of the powers of one department, to encroach upon another. The spirit of encroachment tends to consolidate the powers of all the departments in one, and thus to create, whatever the form of government, a real despotism. A just estimate of that love of power and proneness to abuse it which predominate in the human heart, is sufficient to satisfy us of the truth of this position. The necessity of reciprocal checks in the exercise of political power, by dividing and distributing it into different depositories, and constituting each the guardian of the public weal against invaconstituting each the guardian of the public weal against invasions of the others, has been evinced by experiments ancient and modern: some of them in own country and under our own eyes.—To preserve them must be as necessary as to institute them. If, in the opinion of the people, the distribution or modification of the constitutional powers be in any particular wrong, let it be corrected by an amendment in the way which the constitution designates.—But let there be no change by usurpation; for though this, in one instance, may be the instrument of good, it is the customary weapon by which free governments are destroyed. The precedent must always greatly overbalance in permanent evil, any partial or transient benefit which the use can at any time yield.

Observe good faith and justice towards all nations; cultivate peace and harmony with all. Religion and morality enjoin this conduct, and can it be that good policy does not equally enjoin it? It will be worthy of a free, enlightened, and, at no distant period, a great nation, to give to mankind the magnanimous and too novel example of a people always guided by an exalted justice and benevolence. Who can doubt but, in the course of time and things, the fruits of such a plan would richly repay any temporary advantages which might be lost by a steady adherence to it; can it be that Providence has not connected the permanent felicity of a nation with its virtue? The experiment, at least, is recommended by every sentiment which ennobles human nature. Alasi is it rendered impossible by its vices? Against the insidious wiles of foreign influence, (I conjure you to believe me fellow citizens), the jealousy of a free people ought to be constantly awake; since history and experience prove, that foreign influence is one of the most baneful foes of republican government. But that jealousy, to be useful, must be impartial, constituting each the guardian of the public weal against inva-sions of the others, has been evinced by experiments ancient and

else it becomes the instrument of the very influence to be avoided, instead of a defense against it. Excessive partiality for one foreign nation and excessive dislike for another, cause those whom they actuate to see danger only on one side, and serve to veil and even second the arts of influence on the other. Real patriots, who may resist the intrigues of the favorite, are liable to become suspected and odious; while its tools and dupes usurp the applause and confidence of the people, to surrender interests.

The great rule of conduct for us, in regard to foreign nations, is, in extending our commercial relations, to have with them as little political connection as possible. So far as we have already formed engagements, let them be fulfilled with perfect good faith:—Here let us stop.

Europe has a set of primary interests, which to us have none, or a very remote relation. Hence, she must be engaged in frequent controversies, the causes of which are essentially foreign to our concerns. Hence, the efore, it must be unwise in us to implicate ourselves, by artificial ties, in the ordinary vicissitudes of her politics, or the ordinary combinations and collisions of her friendships or enmitties. Our detached and distant situation invites and enables us to

our detached and distant situation invites and changes a so pursue a different course. If we remain one people, under an efficient government, the period is not far off when we may defy material injury from external annoyance; when we may

take such an attitude as will cause the neutrality we may at any time resolve upon, to be scrupulously respected; when belligerent nations, under the impossibility of making acquisi-tions upon us, will not lightly hazard the giving us provocation, when we may choose peace or war, as our interest, guided by justice, shall counsel.

Taking care always to keep ourselves by suitable establishments, on a respectable defensive posture, we may safely trust to temporary alliances for extraordinary emergencies.

The duty of holding a neutral conduct may be inferred, without anything more, from the obligation which justice and humanity impose on every nation, in cases in which it is free to act, to maintain inviolate the relations of peace and amity towards other nations.

The inducements of interest for observing that conduct will best be referred to your own reflections and experience. With me, a predominant motive has been to endeavor to gain time to our country to settle and mature its yet recent institutions, and to progress, without interruption, to that degree of strength, and consistency which is necessary to give it, humanly speaking, the command of its own fortunes.

GEO. WASHINGTON

UNITED STATES. 17th September, 1706.

CONSTITUTION OF THE UNITED STATES OF AMERICA

The Constitution of the United States is really an outgrowth The Constitution of the United States is really an outgrowth of the Articles of Confederation under which the Colonies were first governed. In May, 1785, Congress recommended an alteration of the Articles of Confederation and it was left to the several state legislatures to proceed in the matter. Such action was slow and finally Congress, on Feb. 21, 1787, adopted a resolution suggesting a convention of delegates to be appointed by the state legislatures. On May 25, these delegates were organized in Philadelphia and George Washington was made President. On Sept. 17, the final draft of the Constitution was agreed upon and transmitted to Congress. On March 4, the Constitution was put into force and the machinery of our present government started after having been ratified by eleven of the thirteen states.

RATIFICATION

RATIFICATION

RATIFICATION

1. Delaware, December 7, 1787, unanimously.
2. Pennsylvania, December 12, 1787, vote 46 to 23.
3. New Jersey, December 18, 1787, unanimously.
4. Georgia, January 2, 1788, unanimously.
5. Connecticut, January 9, 1788, vote 128 to 40.
6. Massachusetts, February 6, 1788, vote 187 to 168.
7. Maryland, April 28, 1788, vote 63 to 12.
8. South Carolina, May 23, 1788, vote 149 to 73.
9. New Hampshire, June 21, 1788, vote 57 to 46.
10. Virginia, June 25, 1788, vote 39 to 79.
11. New York, July 26, 1788, vote 30 to 28.
(Later ratification.)
12. North Carolina, November 21, 1789, vote 193 to 75.

North Carolina, November 21, 1789, vote 193 to 75. Rhode Island, May 29, 1790, vote 34 to 32.

PREAMBLE. We, the people of the United States, in order to form a more perfect union, establish justice, insure domestic tranquility, provide for the common defense, promote the general welfare and secure the blessings of liberty to ourselves and our posterity, do ordain and establish this constitution for the United States of America:

ARTICLE I

[The Legislative Department.]

Section I. All legislative Department.]

Section II. All legislative powers herein granted shall be vested in a congress of the United States, which shall consist of a senate and house of representatives.

Section II. 1. The house of representatives shall be composed of members chosen every second year by the people of the several states, and the electors in each state shall have the qualifications requisite for electors of the most numerous branch of the state

legislature.

2. No person shall be a representative who shall not have attained to the age of 25 years and been seven years a citizen of the United States, and who shall not, when elected, be an inhabitant of that state in which he shall be chosen.

3. Representatives and direct taxes shall be apportioned among the several states which may be included within this union, according to their respective numbers, which shall be determined by adding to the whole number of free persons, including those bound to service for a term of years, and excluding Indians not taxed, three-fifths of all other persons [see Amendment XIV]. The actual enumeration shall be made

within three years after the first meeting of the congress of the United States, and within every subsequent term of ten years, in such manner as they shall by law direct. The number of representatives shall not exceed one for every 30,000, but each state shall have at least one representative, and until such enumeration shall be made, the state of New Hampshire shall be entitled to choose three; Massachusetts, eight; Rhode Island and Providence Plantations, one; Connecticut, five; New York, six; New Jersey, four; Pennsylvania, eight; Delaware, one; Maryland, six; Virginia, ten; North Carolina, five, south Carolina, five, and Georgia, three.

4. When vacancies happen in the representation from any state the executive authority thereof shall issue writs of election to fill such vacancies. within three years after the first meeting of the congress of the

state the executive authority thereof shall issue writs of election to fill such vacancies.

5. The house of representatives shall choose their speaker and other officers and shall have the sole power of impeachment. Section III. 1. The senate of the United States shall be composed of two senators from each state, chosen by the legislature thereof, for six years, and each senator shall have one vote. Clause 1 is superseded by Amendment No. XVII.

2. Immediately after they shall be assembled in consequence of the first election they shall be divided, as equally as may be, into three classes. The seats of the senators of the first class shall be vacated at the expiration of the south year; of the second class, at the expiration of the fourth year, and of the third class at the expiration of the sixth year, so that one-third may be chosen every second year, and if vacancies happen by resignation or otherwise, during the recess of the legislature of any state, the executive thereof may make temporary appointments until the next meeting of the legislature, which shall then fill such vacancies. fill such vacancies

3. No person shall be a senator who shall not have attained the age of 30 years and been nine years a citizen of the United Sates, and who shall not, when elected, be an inhabitant of that state for which he shall be chosen.

4. The vice-president of the United States shall be president of the senate, but shall have no vote unless they be equally

of the senate, but shall have no vote unless they be equally divided.

5. The senate shall choose their other officers and also a president pro tempore in the absence of the vice-president or when he shall exercise the office of president of the United States.

6. The senate shall have the sole power to try all impeachments. When sitting for that purpose they shall be on oath or affirmation. When the president of the United States is tried, the chief justice shall preside: and no person shall be convicted without the concurrence of two-thirds of the members present.

7. Judgment in cases of impeachment, shall not extend, further than to removal from office and disqualification to hold and enjoy any office of honor, trust or profit under the United States: but the party convicted shall, nevertheless, be liable and subject to indictment, trial, judgment and punishment according to law.

Section IV. 1. The times, places and manner of holding elections for senators and representatives shall be prescribed in each state by the legislature thereof; but the congress may at any time, by law, make or alter such regulations, except as to the places of choosing senators. The congress shall assemble at least once in every year,

and such meeting shall be on the first Monday in December, unless they shall, by law, appoint a different day. Section V. 1. Each house shall be the judge of the elections, returns and qualifications of its own members, and a majority returns and qualifications of its own members, and a majority of each shall constitute a quorum to do business, but a smaller number may adjourn from day to day, and may be authorized to compel the attendance of absent members, in such manner and under such penalties as each house may provide.

2. Each house may determine the rules of its proceedings, punish its members for disorderly behavior, and, with the concurrence of two-thirds, expel a member.

3. Each house shall keep a journal of its proceedings, and from time to time publish the same, excepting such parts as may, in their judgment, require secrecy; and the yeas and nays of the

in their judgment, require screecy; and the yeas and nays of the members of either house, on any question, shall, at the desire of one-fifth of those present, be entered on the journal.

4. Neither house, during the session of congress, shall without the consent of the other, adjourn for more than three days, nor to any other place, than that in which the true house shall with

nor to any other place than that in which the two houses shall

be sitting.

Section VI. 1. The senators and representatives shall receive a compensation* for their services, to be ascertained by law, and paid out of the treasury of the United States. They shall, in all cases, except treason, felony and breach of the peace, be privileged from arrest during their attendance at the session of

privileged from arrest during their attendance at the session of their respective houses; and in going to or returning from the same, and for any speech or debate in either house they shall not be questioned in any other place.

2. No senator or representative shall, during the time for which he was elected, be appointed to any civil office under the authority of the United States which shall have been created, or the emoluments whereof shall have been increased, during such time, and no person holding any office under the United States shall be a member of either house during his continuance

in office.

Section VII. 1. All bills for raising revenue shall originate in the house of representatives, but the senate may propose or

in the house of representatives, but the senate may propose or concur with amendments, as on other bills.

2. Every bill which shall have passed the house of representatives, and the senate shall, before it becomes a law, be presented to the president of the United States: if he approve, he shall sign it, but if not, he shall return it, with his objections, to that house in which it shall have originated, who shall enter the objections at large on their journal, and proceed to reconsider it. If, after such reconsideration, two-thirds of that house shall agree to pass the bill, it shall be sent, together with the objections, to the other house, by which it shall likewise be reconsidered and if approved by two-thirds of that house it shall become a law. But in all such cases the votes of both houses shall be determined by yeas and nays, and the names of the persons voting for and against the bill shall be entered on the journal of each house respectively. If any bill shall not be returned by the president within ten days (Sundays excepted) after it shall have been presented to him, the same shall be a law, in like manner as if he had signed it, unless the congress by their adjournment prevent its return; in which case it shall not their adjournment prevent its return; in which case it shall not be a law.

3. Every order, resolution, or vote to which the concurrence of the senate and house of representatives may be necessary (except on a question of adjournment) shall be presented to the president of the United States; and before the same shall take effect shall be approved by him, or, being disapproved by him, shall be repassed by two-thirds of the senate and the house of representatives, according to the rules and limitations prescribed in the case of a bill.

Section VIII. The congress shall have power—

1. To lay and collect taxes, duties, imposts and excises, to pay the debts and provide for the common defense and general welfare of the United States; but all duties, imposts and excises shall be uniform throughout the United States.

2. To borrow money on the credit of the United States.

3. To regulate commerce with foreign nations and among the several states and with the Indian tribes.

4. To establish an uniform rule of naturalization and uniform lawson the subject of bankruptcies throughout the United States.

*Salary of Congressmen and Senators is \$7,500 per year and mileage.

†Naturalization laws require a foreigner to be in the United States five years before he is entitled to vote.

5. To coin money, regulate the value thereof and of foreign

coin, and fix the standard of weights and measures.

6. To provide for the punishment of counterfeiting the securities and current coin of the United States.

7. To establish post-offices and post-roads.

8. To promote the progress of science and useful arts by securing, for limited times, to authors and inventors, the exclusive right to their respective writings and discoveries.*

9. To constitute tribunals inferior to the Supreme court.

10. To define and punish piracies and felonies committed on the high seas and officers against the law of nations.

the high seas and offenses against the law of nations. the high seas and offenses against the law of nations.

11. To declare war, grant letters of marque and reprisal and make rules concerning captures on land and water.

12. To raise and support armies, but no appropriation of money to that use shall be for a longer term than two years.

13. To provide and maintain a navy.

14. To make rules for the government and regulation of the land and naval forces.

15. To provide for calling forth the militia to execute the laws of the union, suppress insurrections and repel invasions.

16. To provide for organizing arming and disciplining the

16. To provide for organizing, arming and disciplining the militia and for governing such part of them as may be employed in the service of the United States, reserving to the states respectively the appointment of the officers and the authority of training the militia according to the discipline prescribed

by congress.

17. To exercise exclusive legislation in all cases whatsoever over such district (not exceeding ten miles square) as may, by ession of particular states and the acceptance of congres become the seat of government of the United States, and to exercise like authority over all places purchased, by the consent of the legislature of the state in which the same shall he, for the or the registrate of the state of the received of forts, magazines, arsenals, dry docks and other needful buildings: and,

18. To make all laws which shall be necessary and proper for

18. To make all laws which shall be necessary and proper for carrying into execution the foregoing powers, and all other powers vested by this constitution in the government of the United States or in any department or officer thereof.

Section IX. 1. The migration or importation of such persons as any of the states now existing shall think proper to admit shall not be prohibited by the congress prior to the year one thousand eight hundred and eight, but a tax or duty may be imposed on such importation, not exceeding \$10 for each person.

2. The privilege of the writ of habeas corpus shall not be suspended, unless when in cases of rebellion or invasion the public safety may require it.

3. No bill of attainder or ex post facto law shall be passed.

4. No capitation or other direct tax shall belaid, unless in proportion to the census or enumeration hereinbefore directed

proportion to the census or enumeration hereinbefore directed to be taken.

5. No tax or duty shall be laid on articles exported from any

6. No preference shall be given, by any regulation of commerce or revenue to the ports of one state over those of another; nor shall vessels bound to or from one state be obliged to enter,

nor shall vessels bound to or from one state be obliged to enter, clear or pay duties in another.

7. No money shall be drawn from the treasury, but in consequence of appropriations made by law; and a regular statement and account of receipts and expenditures of all public money shall be published from time to time.

8. No title of nobility shall be granted by the United States; and no person holding any office of profit or trust under them shall, without the consent of the congress, accept of any present, emolument, office or title of any kind whatever, from any king, prince or foreign state.

emolument, office or tifle of any kind whatever, from any king, prince or foreign state.

Section X. 1. No state shall enter into any treaty, alliance or confederation; grant letters of marque and reprisal; coin money; emit bills of credit; make anything but gold and silver coin a tender in payment of debts; pass any bill of attainder, ex post facto law, or law impairing the obligation of contracts, or grant any title of nobility.

2. No state shall, without the consent of the congress, any any impact any duties any imports or covered what make the consent of the congress, any constitutions of the congress and the conference of the congress.

No state shall, without the consent of the congress, lay any imposts or duties on imports or exports, except what may be absolutely necessary for executing its inspection laws, and the net produce of all duties and imposts laid by any state on imports or exports shall be for the use of the treasury of the United States, and all such laws shall be subject to the revision and control of the congress.
 No state shall, without the consent of congress, lay any

^{*}A copyright is good for 28 years.

duty of tonnage, keep troops or ships of war in time of peace, enter into any agreement or compact with another state or with a foreign power or engage in war, unless actually invaded or in such imminent danger as will not admit of delay.

ARTICLE II

ARTICLE II

[THE EXECUTIVE DEPARTMENT.]

Section I. 1. The executive power shall be vested in a president of the United States of America. He shall hold his office during the term of four years, and together with the vice-president, chosen for the same term, be elected as follows:

2. Each state shall appoint, in such manner as the legislature thereof may direct, a number of electors, equal to the whole number of secretors and representatives to which the

number of senators and representatives to which the state may

be entitled in the congress; but no senator or representative or person holding an office of trust or profit under the United States shall be appointed an elector.

3. The electors shall meet in their respective states and vote by ballot for two persons, of whom one at least shall not be an inhabitant of the congress that with themselves. inhabitant of the same state with themselves. And they shall make a list of all the persons voted for and of the number of votes make a list of all the persons voted for and of the number of votes for each, which list they shall sign and certify and transmit sealed to the seat of government of the United States, directed to the president of the senate. The president of the senate shall, in the presence of the senate and house of representatives, open all the certificates and the votes shall then be counted. The person having the greatest number of votes shall be the president, if such number be a majority of the whole number of electors appointed; and if there be more than one who have such majority appointed; and if there be more than one who have such majority and have an equal number of votes, then the house of representatives shall immediately choose, by ballot, one of them for president; and if no person have a majority, then from the five highest on the list the said house shall, in like manner, choose the president. But in choosing the president the votes shall be taken by states, the representation from each state having one vote; a quorum for this purpose shall consist of a member or members from two-thirds of the states, and a majority of all the states shall be necessary to a choice. In every case, after the choice of the president the person having the greatest number of votes of the electors shall be the vice-president. But if there should remain two more who have equal votes, the senate of votes of the electors sand be the vice-president. But it there should remain two or more who have equal votes, the senate shall choose from them by ballot, the vice-president. (Clause 3 is superseded by Amendment No. XII.)

4. The congress may determine the time of choosing the electors and the day on which they shall give their votes, which day shall be the same throughout the United States.

5. No person except a natural-born citizen or a citizen of the United States at the time of the adoption of this constitution shall be eligible to the office of president; neither shall any person be eligible to that office who shall not have attained to the age of 35 years and been fourteen years a resident within the United States.

6. In case of the removal of the president from office or of his death, resignation or inability to discharge the powers and duties of the said office, the same shall devolve on the viceduties of the said office, the same shall devolve on the vicepresident; and the congress may, by law, provide for the case
of removal, death, resignation, or inability both of the president
and vice-president, declaring what officer shall then act as
president, and such officer shall act accordingly, until the disability be removed or a president shall be elected.

7. The president shall, at stated times, receive for his services
a compensation, which shall neither be increased nor diminished
during the period for which he shall have been elected, and he
shall not receive within that period any other emolument from
the United States or any of them.

8. Before he enter on the execution of his office he shall take

8. Before he enter on the execution of his office he shall take

8. Before he enter on the execution of his office he shall take the following oath or affirmation:
I do solemnly swear (or affirm) that I will faithfully execute the office of president of the United States, and will, to the best of my ability, preserve, protect and defend the constitution of the United States.

Section II. 1. The president shall be commander in chief of the army and navy of the United States and of the militia of the several states when called into the actual service of the United States. He may require the opinion, in writing, of the principal officer in each of the executive departments upon any subject relating to the duties of their respective offices, and he shall have the power to grant reprieves and pardons for offences against the United States except in cases of impeachment.

2. He shall have power, by and with the advice and consent of the senate, to make treaties, provided two-thirds of the sen

ators present concur; and he shall nominate, and, by and with the advice and consent of the senate, shall appoint ambassadors, other public ministers and consuls, judges of the Supreme Court and all other officers of the United States whose appointments are not herein otherwise provided for and which shall be estab-lished by law. But the congress may, by law, vest the appoint-ment of such inferior officers as they shall think proper in the president alone, in the courts of law or in the heads of depart-

3. The president shall have power to fill up all vacancies that

3. The president shall have power to fit up an executive may happen during the recess of the senate by granting commissions, which shall expire at the end of their next session. Section III. He shall, from time to time, give to the congress information of the state of the union and recommend to their consideration such measures as he shall judge necessary and consideration such measures as the shall judge necessary and expedient. He may, on extraordinary occasions, convene both houses or either of them, and in case of disagreement between Houses or either of them, and m case or disagreement between them, with respect to the time of adjournment, he may adjourn them to such time as he shall think proper. He shall receive ambassadors and other public ministers. He shall take care that the laws be faithfully executed, and shall commission all the officers of the United States.

Section IV. The president, vice-president and all civil officers of the United States shall be removed from office on impeachment for and conviction of treason brileyer or other high crimes.

ment for and conviction of treason, bribery or other high crimes

and misdemeanors.

ARTICLE III

[THE JUDICIAL DEPARTMENT.]

Section I. The judicial power of the United States shall be vested in one Supreme Court and in such inferior courts as the congress may, from time to time, ordain and establish. The judges, both of the Supreme and inferior courts, shall hold their offices during good behavior, and shall, at stated times, receive for their expressions of the supreme and inferior courts.

omes during good behavior, and shall, at stated times, receive for their services a compensation, which shall not be diminished during their continuance in office.

Section II. 1. The judicial power shall extend to all cases, in law and equity, arising under this constitution, the laws of the United States and treaties made or which shall be made, under their authority; to all cases affecting ambassadors, other public ministers and consuls; to all cases of admiralty and maritime jurisdiction; to controversies to which the United States shall be a party; to controversies between two or more states; between a state and citizens of another state; between citizens of different states; between citizens of the same state, claiming lands under grants of different states, and between a state or the citizens thereof and foreign states, citizens or subjects.

2. In all cases affecting ambassadors, other public ministers and consuls and those in which a state shall be a party the Supreme Court shall have original jurisdiction. In all the other cases before mentioned the Supreme Court shall have appellate

cases before mentioned the Supreme Court shall have appellate jurisdiction, both as to law and fact, with such exceptions and under such regulations as the congress shall make.

3. The trial of all crimes, except in cases of impeachment, shall be by jury; and such trials shall be held in the state where the said crimes shall have been committed, but when not committed within any state the trial shall be at such place or places as the congress may by law have directed.

Section III. 1. Treason against the United States shall consist only in levying war against them or in adhering to their enemies, giving them aid and comfort. No person shall be convicted of treason unless on the testimony of two witnesses to the same overt act or on confession in open court.

2. The congress shall have power to declare the punishment of treason, but no attainder of treason shall work corruption of blood or forfeiture except during the life of the person attainted.

blood or forfeiture except during the life of the person attainted.

ARTICLE IV

[RIGHTS OF STATES.]

Section I. Full faith and credit shall be given in each state Section I. Full faith and credit shall be given in each state to the public acts, records and judicial proceedings of every other state. And the congress may, by general laws, prescribe the manner in which such acts, records and proceedings shall be proved and the effect thereof.

Section II. 1. The citizens of each state shall be entitled to all privileges and immunities of citizens in the several states.

2. A person charged in any state with treason, felony or other crime, who shall flee from justice and be found in another state, shall, on demand of the executive authority of the state from

which he fled, be delivered up, to be removed to the state having

jurisdiction of the crime.

3. No person held to service or labor in one state under the laws thereof, escaping into another, shall, in consequence of any law or regulation therein be discharged from such service or law or regulation therein be discharged from state service or labor, but shall be delivered up on claim of the party to whom such service or labor may be due.

Section III. 1. New states may be admitted by the congress of this union; but no new state shall be formed or erected within

the jurisdiction of any other state, nor any state be formed by the junction of two or more states or parts of states, without the consent of the legislatures of the states concerned as well as of

the congress.

2. The congress shall have power to dispose of and make all needful rules and regulations respecting the territory or other property belonging to the United States, and nothing in this constitution shall be so construed as to prejudice any claims of

the United States or of any particular state.

Section IV. The United States shall guarantee to every state in this union a republican form of government, and shall protect each of them against invasion, and on application of the legis-lature or of the executive (when the legislature cannot be convened) against domestic violence.

ARTICLE V [AMENDMENTS.]

The congress, whenever two-thirds of both houses shall deem The congress, whenever two-thirds of both houses shall deem it necessary, shall propose amendments to this constitution, or, on the application of the legislatures of two-thirds of the several states, shall call a convention for proposing amendments, which, in either case, shall be valid to all intents and purposes as part of this constitution, when ratified by the legislatures of three-fourths of the several states or by conventions in three-fourths thereof, as the one or the other mode of ratification may be proposed by the congress; provided, that no amendment which may be made prior to the year one thousand eight hundred and eight shall in any manner affect the first and fourth clauses in the ninth section of the first article; and that no state, without its consent, shall be deprived of its equal suffrage in the senate.

ARTICLE VI

[AUTHORITY OF CONSTITUTION.]

Section I. 1. All debts contracted and engagements entered into before the adoption of this constitution shall be as valid against the United States under this constitution as under the confederation.

2. This constitution and the laws of the United States which

2. This constitution and the laws of the United States which shall be made in pursuance thereof and all treaties made, or which shall be made, under authority of the United States, shall be the supreme law of the land, and the judges in every state shall be bound thereby, anything in the constitution or laws of any state to the contrary notwithstanding.

3. The senators and representatives before mentioned and the members of the several state legislatures and all executive and judicial officers, both of the United States and of the several states, shall be bound, by oath or affirmation, to support this constitution; but no religious test shall ever be required as a qualification to any office or public trust under the United States.

ARTICLE VII

[RATIFICATION OF CONSTITUTION.]

The ratification of the conventions of nine states shall be sufficient for the establishment of this constitution between the

States so ratifying the same.

Done in convention, by the unanimous consent of the states present, the seventeenth day of September, in the year of our Lord one thousand seven hundred and eighty-seven, and of the independence of the United States of America the twelfth.

AMENDMENTS TO THE CONSTITUTION

[The first ten amendments were proposed at the first session of the first congress (1789) and adopted in 1791.]

AMENDMENT I

Congress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof; or abridging the freedom of speech or of the press; or the right of the people

peaceably to assemble, and to petition the Government for a redress of grievances.

AMENDMENT II

A well-regulated militia being necessary to the security of a free state, the right of the people, to keep and bear arms shall not be infringed.

AMENDMENT III

No soldier shall, in time of peace, be quartered in any house without the consent of the owner, nor in time of war but in a manner to be prescribed by law.

AMENDMENT IV

The right of the people to be secure in their persons, houses, papers, and effects, against unreasonable searches and seizures, shall not be violated, and no warrants shall issue but upon probable cause, supported by oath or affirmation, and particularly describing the place to be searched, and the persons or things to be seized.

AMENDMENT V

No person shall be held to answer for a capital or other infamous crime unless on a presentment or indictment of a grand jury, except in cases arising in the land or naval forces, or in the Jury, except in cases arising in the sand or naval forces, or in the militia, when in actual service, in time of war or public danger; nor shall any person be subject for the same offence to be twice put in jeopardy of life or limb; nor shall be compelled in any criminal case to be a witness against himself, nor be deprived of life, liberty, or property, without due process of law; nor shall private property be taken for public use without just compensation.

AMENDMENT VI

In all criminal prosecutions, the accused shall enjoy the right to a speedy and public trial, by an impartial jury of the state and district wherein the crime shall have been committed, which district shall have been previously ascertained by law, and to be informed of the nature and cause of the accusation; to be confronted with the witnesses against him; to have compulsory process for obtaining witnesses in his favor, and to have the assistance of counsel for his defence.

AMENDMENT VII.

In suits at common law, where the value in controversy shall exceed twenty dollars, the right of trial by jury shall be preserved, and no fact tried by a jury shall be otherwise re-examined in any court of the United States than according to the rules of the common law.

AMENDMENT VIII

Excessive bail shall not be required, nor excessive fines imposed, nor cruel and unusual punishments inflicted.

AMENDMENT IX

The enumeration in the Constitution of certain rights shall not be construed to deny or disparage others retained by the people.

AMENDMENT X

The powers not delegated to the United States by the Constitution, nor prohibited by it to the States, are reserved to the States respectively, or to the people.

AMENDMENT XI

[The eleventh amendment was proposed at the first session of the third congress (1794) and adopted in 1798.] The judicial power of the United States shall not be con-strued to extend to any suit in law or equity, commenced or prosecuted against one of the United States, by citizens of another state, or by citizens or subjects of any foreign state.

AMENDMENT XII

[The twelfth amendment is a substitute for Clause 3, Sec. 1,

The electron amendment is a substitute for Clause 3, Sec. 1, Art. II., adopted in 1804.]

The electrors shall meet in their respective states, and vote by ballot for president and vice-president, one of whom at least shall not be an inhabitant of the same state with themselves; they shall name in their ballots the person voted for as president; and in distinct ballots the person voted for as vice-president; and

they shall make distinct lists of all persons voted for as president and of all persons voted for as vice-president, and of the number of votes for each, which lists they shall sign and certify and transmit sealed to the seat of the government of the United States, or rebellion, shall not be questioned. But neither the United directed to the president of the senate and house of representatives, open all the certificates and the votes shall then be counted; the person having the greatest number of votes for president shall be the president, if such number be a majority of the whole number of electors appointed; and if no person have such majority, then from the persons having the highest numbers, not exceeding three, on the list of those voted for as president, the house of representatives shall choose immediately, by ballot, the president. But in choosing the president, the votes shall be taken by states, the representation from each state

Section 4. The validity of the public debt of the United States, authorized by law, including debts incurred for payment of pensions and bounties for services in suppressing insurrection in states, authorized by law, including debts incurred for payment of pensions and bounties for services in suppressing insurrection in states, authorized by law, including debts incurred for payment of pensions and bounties for services in suppressing insurrection in states, authorized by law, including debts incurred for payment of pensions and bounties for services in suppressing insurrection in states, authorized by law, including debts incurred for payment of pensions and bounties for services in suppression sall have the United States, authorized by law, including debts incurred for payment of pensions and bounties for services in suppression in surrection in states, authorized by law, including debts incurred for payment of pensions and bounties for services in suppression in surrection or rebellion, shall not be questioned. But neither the United States, authorized by law, including by danot, the president. But in choosing the president, its partial shall be taken by states, the representation from each state having one vote; a quorum for this purpose shall consist of a member or members from two-thirds of the states, and a majority of all the states shall be necessary to a choice. And if the house of representatives shall not choose a president, whenever the right of choice shall devolve upon them, before the fourth day of March next following, then the vice-president shall act as president, as in the case of the death or other constitutional disability of the president. The person having the greatest number of votes as vice-president shall be the vice-president, if such number be a majority of the whole number of electors appointed, and if no person have a majority, then from the two highest numbers on the list the senate shall choose a vice-president; a quorum for the purpose shall consist of two-thirds of the whole number of senators, and a majority of the whole number of senators, and a majority of the whole number of senators, and a majority of the whole number of senators, and a majority of the whole number of senators, and a majority of the whole number of the purpose shall consist of two-thirds of the sixty-first congress 1909 and adopted in 1913.]

The congress shall have power to lay and collect taxes on incomes, from whatever source derived, without apportionment, that of vice-president of the United States.

AMENDMENT XIII

[The thirteenth amendment was proposed at the second ssion of the thirty-eighth congress (1865) and adopted in 1865.]

Section 1. Neither slavery nor involuntary servitude, except as a punishment for crime whereof the party shall have been duly convicted, shall exist within the United States or any place subject to their jurisdiction.

Section 2. Congress shall have power to enforce this article by appropriate legislation.

AMENDMENT XIV

[The fourteenth amendment proposed at first session of thirty-ninth congress (1866) and adopted in 1868.]

Section 1. All persons born or naturalized in the United States and subject to the jurisdiction thereof are citizens of the United States and of the state wherein they reside. No state shall make or enforce any law which shall abridge the privileges or immunities of citizens of the United States, nor shall any state deprive any person of life, liberty or property without due process of law, nor deny to any person within its jurisdiction the equal protection of the laws.

Section 2. Representatives shall be apportioned among the everal states according to their respective numbers, counting several states according to their respective numbers, counting the whole number of persons in each state, excluding Indians not taxed. But when the right to vote at any election for the choice of electors for president and vice-president of the United States, representatives in congress, the executive and judicial officers of a state or the members of the legislature thereof is denied to any of the male inhabitants of such state, being 21 years of age and citizens of the United States, or in any way abridged, except for participation in rebellion or other crime, the basis of representation therein shall be reduced in the proportion which the number of such male citizens shall bear to the whole number of male citizens 21 years of age in such state.

Section 3. No person shall be a senator or representative in congress or elector of president and vice-president, or hold any office, civil or military, under the United States, or under any state, who, having previously taken the oath as a member of congress or as an officer of the United States, or as a member of any state legislature, or as an executive or judicial officer of any state, to support the constitution of the United States, shall have engaged in insurrection or rebellion against the same or given aid or comfort to the enemies thereof. But congress may, by a vote of two-thirds of each house, remove such disability.

AMENDMENT XV

[The fifteenth amendment was proposed at second session of fortieth congress (1869) and adopted in 1870.]

ection 1. The right of citizens of the United States to vote shall not be denied or abridged by the United States or any state on account of race, color or previous condition of servitude.

Section 2. The congress shall have power to enforce this article by appropriate legislation.

The congress shall have power to lay and collect taxes on incomes, from whatever source derived, without apportionment, among the several states, and without regard to any census or enumeration.

AMENDMENT XVII

[The seventeenth amendment was proposed at the second session of sixty-second congress and adopted in 1913].

The senate of the United States shall be composed of two senators from each state, elected by the people thereof, for six years; and each senator shall have one vote. The electors in each state shall have the qualifications requisite for electors of the most numerous branch of the state legislatures.

When vacancies happen in the representation of any state in the senate, the executive authority of such state shall issue writs of election to fill such vacancies, provided that the legis-lature of any state may empower the executive thereof to make temporary appointments until the people fill the vacancies by election as the legislature may direct.

DIRECT ELECTION OF SENATORS

The 17th amendment primarily transfers the power of electing senators from the state legislatures to the people at the polls. To effect this change it was necessary to alter the machinery for the filling of vacancies in the senate.

For more than sixty years proposals have been made to change the Constitution so as to provide for the direct election of senators. It was not, however, until June 24, 1911, that the senate was induced to give its consent to the change. On that day it voted to submit to the states the proposed amendment. The resolution to submit had already passed the House in a somewhat different form. Before adjournment of the session, both houses agreed to the language to be employed, and the resolution was deposited with the Secretary of State, May 16, 1912, for distribution among the states.

No legislation by congress will be necessary to put the changes into effect. It will be incumbent upon the various states to see to it that proper provision is made by the names of senators going on the regular ballots. Should any state fail to do so, it has been suggested that congress might exercise its power of supervising that state's voting regulations so as to require the name to be placed on the ballots.

The first senators to be elected by the new method were those who took their seats for the term that began on March 4. 1915.

THE MONROE DOCTRINE

"In the discussions to which this interest has given rise, [referring to steps taken to arrange the respective rights of Russia, England and the United States on the north-west coast of this continent], and in the arrangements by which they may of this continent, and in the arrangements by which they they terminate, the occasion has been deemed proper for asserting, as a principle in which the rights and interests of the United States are involved, that the American continents, by the free and independent condition which they have assumed and maintain, are henceforth not to be considered as subjects for future colonization by any European power. * * * We owe it, therefore, to candor and to the amicable relations existing between the United States and those powers to declare that we should consider any attempt on their part to extend their system to any portion of this hemisphere as dangerous to our peace and safety. With the existing colonies or dependencies of any European power we have not interfered and shall not interfere. But with

The Monroe Doctrine received its name from President the governments who have declared their independence and Monroe because of the following statement of policy which he made in his message to congress, Dec. 2, 1823:

the governments who have declared their independence and maintain it, and whose independence we have, on great consideration and on just principles, acknowledged, we could not meintain it, and whose independence we have, on great consideration and on just principles, acknowledged, we could not view any interposition for the purpose of oppressing them or controlling in any other manner their destiny by any European power in any other light than as the manifestation of an unfriendly disposition toward the United States."

This has been the policy of the government almost from the beginning. Washington in his farewell address, intimated such a feeling, in declaring a converse policy of non-interference in European affairs. During Cleveland's administration the Monroe Doctrine was put to the supreme test in connection with Monroe Doctrine was put to the supreme test in connection with the claims of various countries against Venezuela, precipitated by the pacific blockade of its ports by British, German, and Italian war vessels and especially Great Britain's claim to territory. During President Taft's administration the senate did not ratify the submitted arbitration treaties with England and France mainly because our policy of the Monroe Doctrine would not be compatible with such action.

CITIZENSHIP AND

CTTIZENSHIP .- The Federal statutes declare the following persons to be citizens:

All persons born in United States and not subject to any

All persons porn in United States and not subject to any foreign power, excluding Indians not taxed.

All persons legally naturalized.

All children born out of jurisdiction of United States, whose fathers are at time of their birth citizens thereof, but the right of citizenship shall not descend to children whose fathers have some resided in the United States.

never resided in the United States.

never resided in the United States.

Any American woman who marries a foreigner shall take the nationality of her husband. At the termination of the marital relation she may resume her American citizenship, if abroad, by registering as an American citizen within one year with a consul of the United States, or by returning to reside in the United States, or, if residing in the United States at the in the United States, or, if residing in the United States at the termination of the marital relation, by continuing to reside therein. All persons who were citizens of the Republic of Hawaii on August 12, 1898 are citizens of the United States and Hawaii. The inhabitants of the Philippines and Porto Rico, while entitled to protection of the United States under the Constitution, are not citizens of the United States under the Constitution, are not citizens of the United States under the Constitution are not citizens of the United States, and cannot become naturalized, under existing law, without becoming residents of a state or organized territory of the United States. The courts have held, however, that native Filipinos are not white persons within the provisions of Section 2169 of the Revised Statutes, and, therefore, cannot be naturalized.

NATURALIZATION.—The applicant for citizenship must have resided in the United States for the continued term of at least by years next preceding his admission, at least the last year of which must have been spent within the state or territory where the court is located to which he applies for admission. Not less than two, nor more than seven, years before filing peti-

where the court is located to which he applies for admission. Not less than two, nor more than seven, years before fling petition for naturalization, he must file, under oath or affirmation, before a state or Federal court of record exercising jurisdiction over his place of residence, and which court has been supplied with the proper naturalization forms issued by the Government, with the proper naturalization forms issued by the Government, a declaration of his intention to become a citizen. Any alien over 18 years of age may declare intention and every person desiring naturalization must declare intention, unless specifically exempted by law. There is a fee of \$1 for receiving and filing declaration of intention; and of \$4 for filing petition, which includes the entry of final order, and, if granted, the issuance of citizenship certificate. Blanks for statements of facts required for first or final papers should be obtained from court clerk. An alien who arrived in the United States after June 29, 1906, is required to support his petition by a certificate of arrival in the United States, which must be attached to petition, when filed. The certificate must be obtained through the Bureau of Naturalization, and should be requested upon a form obtained from the clerk of court, before appearing to file a petition.

petition. The petition must be accompanied by the affidavits of at least two witnesses who are citizens of the United States who have known the applicant for the entire time, up to 5 years, but not less than one year, spent in the State in which the petition is filed. If the applicant has resided in the State for less than five years, the remaining portion of the five years spent in some other State may be established by the personal appearance of two witnesses, at the final hearing, or by depositions taken upon notice, the form for which should be obtained from court clerk when petition is filed.

NATURALIZATION

To admit of notice being posted for the required period, hearing on a petition cannot be had by the court in less than 90 days after it is filed, and then only on a rule day fixed by order of court, occurring after the expiration of the 90-day

Children of a naturalized citizen who become residents of the United States during their minority become citizens without

United States during their minority become crizens without further naturalization proceedings.

Aliens of the age of 21 years and upward, who have enlisted in the armies of the United States, in the regular or volunteer forces, and have been honorably discharged, are entitled to become citizens upon petition, without previous declaration of intention, and are not required to prove more than 1 year's residence in the United States.

Sagrange of foreign birth, who have declared intention to

residence in the United States.
Seamen of foreign birth, who have declared intention to become citizens, may be naturalized after 3 years' service on merchant ships of the United States, subsequent to the date of such declaration, and the production of certificate of discharge and good conduct during that time.
Under the Act of July 26, 1894, seamen of United States Navy honorably discharged after 5 years of continuous service, and United States marines who have served one enlistment in the United States Marine Corps, are exempted from declaring their intentions, and are entitled to petition for naturalization.

their intentions, and are entitled to petition for naturalization.

Under the Act of June 30, 1914, any alien of the age of 21 years and upward, who might under existing law become a citizen, and has served one enlistment of not less than four years in the Navy, or Marine Corps, or has completed four years in the Revenue-Cutter Service, and has received an honorable discharge or an ordinary discharge with recommendation for re-enlistment, or who has completed four years of honorable service in the Naval Auxiliary service, shall be admitted to citizenship, upon his petition, without any previous declaration of intention, and without proof of residence on shore, upon proof of good moral character and service, provided, that such discharges shall be accepted as proof of good moral character, and that courts of naturalization jurisdiction may immediately naturalize any alien applying under and furnishing the proof prescribed by the foregoing provisions. The courts have held that said law did not repeal the act of July 26, 1894, referred to in the preceding paragraph. It has also been held by some courts that naturalization may not be granted immediately, under the act of June 30, 1914, (without posting notice of petition for at least 90 days), unless the applicant is still in one of the branches of the Federal service enumerated, or his discharge therefrom was of such a recent date as to admit of re-enlistment with continuous service credit. If his discharge occurred hefore therefrom was of such a recent date as to admit of re-enlistment with continuous service credit. If his discharge occurred before that time, it is necessary that he petition under the act of July 26, 1894, referred to above, or file a declaration of intention, and proceed under the provisions of the general naturalization and proceed under the provisions of the general naturalization and proceed under the provisions of the general naturalizations are the provisions tion act.

NATURALIZATION FORBIDDEN.—Only free white persons and persons of African descent can be citizens. Sec. 14, chap. 126 of the laws of 1882 expressly prohibited the naturalization of Chinamen.

CERTIFICATE OF NATURALIZATION.—No certificate of naturalization can be issued within 30 days preceding a general election. Petitions for first or second papers, however, may be received at any time by court clerk, in his regularly established office, or in open court.

NATURALIZATION IN 1915

(YEAR	ENDING	JUNE 30)	
(2.2/34)			Total	Per-
		Certifi-	petitions	centage
State	cates denied	cates	disposed	of
Alabama	42	granted 155	of 197	denials 21
Alaska	. , 6	107	113	5
Arizona	67	295	362	19
Arkansas	36	86	122	30
California	558 156	4,466 852	5,024	11
Connecticut	260	1,649	1,008 1,909	14
Delaware	. 8	91	7,799	8
District of Columbia	. 28	209	237	12
FloridaGeorgia	. 52	135	187	28
Hawaii	65	205 68	270 68	24
Idaho	. 58	380	438	13
Illinois	1,106	8,846	9,952 1,036	11
Indiana	209	827	1,036	20
Iowa	373 178	969 469	1,342	28 28
Kentucky	24	135	159	15
Louisiana	63	323	386	16
Maine		v 534	577	7
Maryland	45 761	497	542	8
Massachusetts	429	5,121 2,846	5,882 3,275	13 13
Minnesota		3,232	3,523	8
Mississippi	11	40	60	18
Missouri		825	1,142	28
Montana Nebraska	385 207	1,837 813	2,222 1,020	20·
Nevada	61	117	178	34
New Hampshire	67	382	449	15
New Jersey	634	3,841	4,475	14
New Jersey	38	94	132	29 15
North Carolina	3,942	22,427 43	26,369 46	. 13
North Carolina North Dakota	144	1,366	1,510	10
Ohio	428	4,145	4.573	. 9
Oklahoma	106	126	232	46
OregonPennsylvania	166 834	871 15,964	1,037 16,798	16 5
Rhode Island	61	1,027	1,088	6
South Carolina	. 23	37	60	38
South Dakota	148	768	916	16
Tennessee	24 128	45 643	69 771	35 17
Utah	73	365	438	17
Vermont	27	352	379	. 7
Virginia	23	235	258	9
Washington	401	2,087 225	2,488	16
West Virginia	83 413	4,897	308 5,310	27 8
Wyoming	86	312	398	22
	10.004	06.000	440.004	-
Total	13,691	96,390	110,081	12
GROWTH	OF PI	ETITION	S	
Certificates	. 1	913	1914	1915
Granted	87	2,017	105,439	96,390

Certificates	1913	1914	1915
Granted	 82,017	105,439	96,390
Denied		13,133	13,691
Total	 92;908	118,572	110,081

FIRST COLLEGE IN THE UNITED STATES

The first commencement of Harvard College, the first of the educational institutions of the United States, was held Aug. 9, 1642. Nine young men comprised the first class of graduates. In 1636 the General Court of Massachusetts agreed to give £400 "toward a schoale or colledge," and the next year ordered that the institution be established at "Newetowne." In 1638 John Harvard, a preacher, died and bequeathed about \$700 to the college to be built at Newtown. In his honor the institution was named Harvard College, while the name of the town was changed to Cambridge, in honor of the great English University. It is doubtful if the original grant of £400 was ever

actually paid, and, in any event, the college project remained in abeyance until the bequest of Harvard at once initiated the necessary measures. The original fund was added to in various ways, and much money was raised by lotteries. Henry Dunster, a Hebrew scholar, was chosen first President, and a class began a course of study in 1638, and nine graduated in 1642.

COTTON AND SOME OF ITS USES

The cotton industry is one of the largest in the United States. In 1916, the United States exported over 3 billion pounds of raw cotton. There are many uses for it. Cotton is the basis of high explosives and of smokeless powder. The war ship carries relatively more cotton than was used by the frigate of a century ago with all its sails. A film of cotton cloth spread across a few poles shelters the Hottentot from the heat of the ship carries relatively more cotton than was used by the frigate of a century ago with all its sails. A film of cotton cloth spread across a few poles shelters the Hottentot from the heat of the sun. The Arctic explorer now discards fur for a duck suit padded with cotton, and finds it both warmer and lighter. Celluloid is nothing but cotton treated with acids. The great office buildings of our cities are dependent upon cotton for the cement that is carried to the spot in bags that consume 180,000,000 yards of cotton cloth every year. The railroads and trolley lines of the United States use more than 250,000 bales of cotton a year for enamel seats, plush chairs, leather seats and air brake hose. The automobile industry consumes about 400,000 bales of cotton a year. Most of it goes into the cotton duck basis which is the essential feature of the tires. The rest is used largely for the soft cushions of cotton felt covered with more cotton that looks like leather. Cotton bags have displaced barrels to a great extent, as they are cheaper. Fifteen million yards of cotton duck annually are used for coal bags, for delivering coal where a chute cannot be employed. Cotton duck is used extensively for ventilating chutes in coal mines. Tarpaulins have replaced other covers for flat cars, vans and wagons. Cotton blankets are largely superseding woolen ones. Fully 20,000,000 yards of cotton duck are consumed annually in the Canadian Northwest for overcoats, replacing fur. Cotton cloth has taken the place of wallpaper in thousands of modern homes. Buckram, made of cotton, covers books. Pottery establishments use millions of yards of army duck annually for squeezing water out of clay. The government uses 4,000,000 yards of cotton duck annually to make into bags to hang over the noses of horses. Millions of yards of duck are used every year for filtering oils; more than 50,000,000 yards of cotton duck in part of the part

LIBRARY OF CONGRESS

East Capitol Street. Washington, D. C.

The Library of Congress was established in 1800 and replenished in 1851-1852, and since that date has been increased (1) by regular annual appropriations by Congress (\$98,000 for books and periodicals); (2) by deposits under the copyright law; (3) by gifts and exchanges; (4) by the exchanges of the Smithsonian Institution, the library of which (40,000 volumes) was, in 1866, deposited in the Library of Congress, with the stipulation that future accessions should follow it. It comprises about 2,100,000 printed books and pamphlets, the floor space of the building (erected at the cost of \$6,347,000, and first occupied in 1897) being 326,196 square feet, and the capacity of the book stacks 3,540,000 octavo volumes and 84,000 volumes of newspapers, the shelving extending to nearly 100 miles. The library is maintained by Congress. library is maintained by Congress.

THE NATIONAL PURE FOOD LAW

The Food and Drugs Act, June 30, 1906, as Amended August 23, 1912

The National Pure Food Law, which was approved June 30, 1906, and which became effective January 1, 1907, is entitled: "An Act for preventing the manufacture, sale, or transportation of adulterated or misbranded or poisonous or deleterious foods, drugs, medicines, and liquors, and for regulating traffic therein.

drugs, medicines, and inducts, and for regulating trains therein, and for other purposes."

Sec. 1 makes it unlawful for any person to manufacture within any Territory or the District of Columbia any article of food or drug which is adulterated or misbranded, within the meaning of this Act; and any person who shall violate any of the provisions of this section shall be guilty of a misdemeanor, and for each offense shall, upon conviction thereof, be fined not to exceed five bundred dollars or shall be sentenced to one year's exceed five hundred dollars or shall be sentenced to one year's imprisonment, or both such fine and imprisonment, in the discretion of the court, and for each subsequent offense and con-viction thereof shall be fined not less than one thousand dollars or sentenced to one year's imprisonment, or both such fine and

imprisonment, in the discretion of the court.

SEC. 2 makes the Act applicable to all drugs introduced into any State or Territory or the District of Columbia, from any other State or Territory or the District of Columbia, or from or

other State or Territory or the District of Columbia, or nome of to any foreign country.

SEC. 3. That the Secretary of the Treasury, the Secretary of Agriculture, and the Secretary of Commerce and Labor shall make uniform rules and regulations for carrying out the provisions of this Act, including the collection and examination of specimens of foods and drugs manufactured or offered for sale specimens of foods and drugs manufactured or offered for sale in the District of Columbia, or in any Territory of the United States, or which shall be offered for sale in unbroken packages in any State other than that in which they shall have been respectively manufactured or produced, or which shall be received from any foreign country, or intended for shipment to any foreign country, or which may be submitted for examination by the chief health, food, or drug officer of any State, Territory, or the District of Columbia, or at any domestic or foreign port through which such produce is offered for interstate commerce, or for export or import between the United States and any foreign port or country.

merce, or for export of import between the ordined states and any foreign port or country.

SEC. 4. That the examinations of specimens of foods and drugs shall be made in the Bureau of Chemistry of the Department of Agriculture, or under the direction and supervision of such Bureau, for the purpose of determining from such examinations whether such articles are adulterated or misbranded within the meaning of this Act; and if it shall appear from any inations whether such articles are adulterated or misbranded within the meaning of this Act; and if it shall appear from any such examination that any of such specimens is adulterated or misbranded within the meaning of this Act, the Secretary of Agriculture shall cause notice thereof to be given to the party from whom such sample was obtained. Any party so notified shall be given an opportunity to be heard, under such rules and regulations as may be prescribed as aforesaid, and if it appears that any of the provisions of this Act have been violated by such party, then the Secretary of Agriculture shall at once certify the facts to the proper United States district attorney, with a copy of the results of the analysis or the examination of such article duly authenticated by the analyst or officer making such examination, under the oath of such officer. After judgment of the court, notice shall be given by publication in such manner as may be prescribed by the rules and regulations aforesaid.

SEC. 5. That it shall be the duty of each district attorney to whom the Secretary of Agriculture shall report any violation of this Act, or to whom any health or food or drug officer or agent of any State, Territory, or the District of Columbia shall present satisfactory evidence of any such violation, to cause appropriate proceedings to be commenced and prosecuted in the proper courts of the United States, without delay, for the enforcement of the penalties as in such case herein provided.

SEC. 6. That the term "drug" as used in this Act, shall include all medicines and preparations recognized in the United States Pharmacopeia or National Formulary for internal or external use, and any substance in formulary for internal or external use, and any substance for mixture of substances in

clude all medicines and preparations recognized in the United States Pharmacopoeia or National Formulary for internal or external use, and any substance or mixture of substances intended to be used for the cure, mitigation, or prevention of disease of either man or other animals. The term "food," as used herein, shall include all articles used for food, drink, confectionery, or condiment by man or other animals, whether simple, mixed, or compound.

SEC. 7. That for the purposes of this Act an article shall be deemed to be adulterated:

deemed to be adulterated:

First. If, when a drug is sold under or by a name recognized in the United States Pharmacopoeia or National Formulary, it

in the United States Pharmacopœia or National Formulary, it differs from the standard of strength, quality, or purity, as determined by the test laid down in the United States Pharmacopœia or National Formulary official at the time of investigation: Provided, That no drug defined in the United States Pharmacopœia or National Formulary shall be deemed to be adulterated under this provision if the standard of strength, quality, or purity be plainly stated upon the bottle, box, or other container thereof although the standard may differ from that determined by the test laid down in the United States Pharmacopœia or National Formulary.

Second. If its strength or purity fall below the professed standard or quality under which it is sold.

In the case of confectionery:

In the case of confectionery:
If it contain terra alba, barytes, talc, chrome yellow, or other
mineral substance or poisonous color or flavor, or other ingredient deleterious or detrimental to health, or any vinous, malt, or spirituous liquor or compound or narcotic drug.

In the case of food:

In case of drugs:

First. If any substance has been mixed and packed with it so as to reduce or lower or injuriously affect its quality or

Second. If any substance has been substituted wholly or in

part for the article.

Third. If any valuable constituent of the article has been wholly or in part abstracted.

Fourth. If it be mixed, colored, powdered, coated, or stained

in a manner whereby damage or inferiority is concealed.

Fifth. If it contain any added poisonous or other added deleterious ingredient which may render such article injurious to health; Provided, That when in the preparation of food products for shipment they are preserved by any external applications and they are preserved by any external applications and they are preserved by any external applications. products for shipment they are preserved by any external ap-plication applied in such manner that the preservative is neces-sarily removed mechanically, or by maceration in water, or otherwise, and directions for the removal of said preservative shall be printed on the covering or the package, the provisions of this Act shall be construed as applying only when said prod-

of this Act shar be construed as applying only when said products are ready for consumption.

Sixth, If it consists in whole or in part of a filthy, decomposed, or putrid animal or vegetable substance, or any portion of an animal unfit for food, whether manufactured or not, or if it is the product of a diseased animal, or one that has died

Sec. 8. That the term "misbranded," as used herein, shall apply to all drugs or articles of food, or articles which enter into the composition of food, the package or label of which shall bear any statement, design, or device regarding such articles are the investigators or supply or device regarding such articles are the investigators or supply or device regarding such articles. shall be a lab statement, design, or device regarding such article, or the ingredients or substances contained therein which shall be false or misleading in any particular, and to any food or drug product which is falsely branded as to the State, Territory, or country in which it is manufactured or produced.

That for the purposes of this Act an article shall also be depended to be withwarded.

deemed to be misbranded: In case of drugs:

First. If it be an imitation of or offered for sale under the name of another article.

Second. If the contents of the package as originally put up Second. If the contents of the package as originally put up shall have been removed, in whole or in part, and other contents shall have been placed in such package, or if the package fail to bear a statement on the label of the quantity or proportion of any alcohol, morphine, opium, cocaine, heroin, alpha or beta eucaine, chloroform, cannabis indica, chloral hydrate, or acetanilide, or any derivative or preparation of any such substances contained therein.

Third. If its package or label shall bear or contain any statement, design, or device regarding the curative or therapeutic effect of such article or any of the ingredients or substances contained therein, which is false and fraudulent.

In the case of food:

First. If it be an imitation of or offered for sale under the

distinctive name of another article.

Second. If it be labeled or branded so as to deceive or mislead the purchaser, or purport to be a foreign product when not so, or if the contents of the package as originally put up shall have been removed in whole or in part and other contents shall have been placed in such package, or if it fail to bear a statement on the label of the quantity or proportion of any morphine, opium, cocaine, heroin, alpha or beta eucaine, chloro-form, cannabis indica, chloral hydrate, or acetanilide, or any derivative or preparation of any of such substances contained

the substances contained therein, which statement, design, or device shall be false or misleading in any particular: Provided, That an article of food which does not contain any added poisonous or deleterious ingredients shall not be deemed to be adulterated or misbranded in the following cases:

First. In the case of mixtures or compounds which may be now or from time to time hereafter known as articles of food, under their own distinctive names, and not an imitation of or offered for sale under the distinctive name of another article, if the name be accompanied on the same label or brand with a statement of the place where said article has been manufactured

or produced.

econd. In the case of articles labeled, branded, or tagged so as to plainly indicate that they are compounds, imitations, or

as the case may be, is plainly stated on the package in which it is offered for sale: *Provided*, That the term blend as used herein shall be construed to mean a mixture of like substances, not excluding harmless coloring or flavoring ingredients used for the purpose of coloring and flavoring only: And provided further. That nothing in this Act shall be construed as requiring or comtherein.

Third.* If in package form, the quantity of the contents be not plainly and conspicuously marked on the outside of the package in terms of weight, measure, or numerical count; Provided, however. That reasonable variations shall be permitted, and tolerances and also exemptions as to small packages shall be established by rules and regulations made in accordance with the provisions of section three of this Act.

Fourth. If the package containing it or its label shall bear any statement, design, or device regarding the ingredients or the substances contained therein, which statement, design, or pelling proprietors or manufacturers of proprietary foods which contain no unwholesome added ingredient to disclose their trade formulas, except in so far as the provisions of this act may require to secure freedom from adulteration or misbranding.

Sec. 9. That no dealer shall be prosecuted under the provisions of this Act when he can establish a guaranty signed by the wholesaler, jobber, manufacturer, or other party residing in the United States, from whom he purchases such articles, to the effect that the same is not adulterated or misbranded within

blends, and the word "compound," "imitation," or "blend."

the meaning of this Act, designating it.

SEC. 10 provides the methods of prosecuting offenders and destroying goods imported or offered for import which are falsely labeled or adulterated.

SEC. 11 provides for the examination of samples of foods and drugs which are being imported into the United States and of-

fered for import.

SEC. 12 provides that the term "Territory" as used in this Act shall include the insular possessions of the United States. The word "person" as used in this Act shall be construed to import both the plural and the singular, as the case demands, and shall include corporations, companies, societies and asso-

The act of March 3, 1913, provides that no penalty of fine, imprisonment, or confiscation shall be enforced for any violation of its provisions as to domestic products prepared or foreign products imported prior to eighteen months after its passage.

INTERSTATE COMMERCE LAW

The original act to regulate commerce, approved February 4, 1887, provided for a commission of five members. By various subsequent enactments the powers of the commission have been subsequent enactments the powers of the commission have been increased, and the scope of the regulating statute widened. Among the more important of these enactments are the acts of March 2, 1889; the Elkins Act, approved February 19, 1903; the Hepburn Act, approved February 29, 1906; the Mann-Elkins Act of June 18, 1910; and the act of August 24, 1912. Under the act of June 29, 1906, the commission is now composed of seven members.

posed of seven members.

The act to regulate commerce applies to all common carriers engaged in the transportation of oil or other commodities, except water, and except natural or artificial gas, by means of pipe lines, or partly by pipe lines and partly by railroad, or partly by pipe lines and partly by railroad, or partly by pipe lines and partly by water, and to telegraph, telephone, and cable companies (whether wire or wireless) engaged in sending messages from one State, Territory, or District of the United States to any other State, Territory, or District of the United States, or to any foreign country, and to common carriers engaged in interstate transportation of passengers or property wholly by railroad (or partly by railroad and partly by water when both are used under a common control, management, or arrangement for a continuous carriage or shipment); ment, or arrangement for a continuous carriage or shipment); also to express companies and sleeping-car companies; and to bridges or ferries used or operated in connection with any rail-road engaged in interstate transportation.

road engaged in interstate transportation.

The act to regulate commerce requires all rates to be reasonable and just; prohibits preferential rates for transportation service performed under like circumstances and conditions; prohibits undue or unreasonable preferences or advantages in rates or facilities and the charging of a higher rate for a shorter than for a longer haul, over the same line, in the same direction, the shorter being included within the longer haul. It is provided, however, that the commission may, in special cases, after investigation, authorize carriers to charge less for longer than for shorter distances. The commission is authorized to require carriers to establish through routes and joint rates. The commission is also authorized to require carriers subject to the act to construct switch connections with lateral branch lines of railroads and private sidetracks. The act provides that where two or more through routes and through rates shall have been established shippers shall have the right to designate in writing via which of such through routes the property shall be transported to destination. ported to destination.

The commission has jurisdiction, upon complaint or in a pro-

ceeding instituted upon its own initiative, and after full hearing, to determine and prescribe reasonable rates, regulations, and practices; to award reparation to injured shippers; and to require carriers to cease and desist from unjust discrimination or undue or unreasonable preferences.

Carriers are required to publish and file all rates, rules, and

regulations applying to interstate traffic, and are prohibited from engaging in interstate transportation unless such rates, rules, and regulations are published and filed. Severe penalties are provided in the statute for failure to observe the rates and regulations shown in the published tariffs.

The commission may inquire into the management of the purpose of all common continuations which the transportation of the purpose of all common continuations which the transportation of the commission may inquire into the management of the purpose of all common continuations which the transportation of the commission which the provided of the commission may inquire into the management of the purpose of all common continuations and the commission of the commission

business of all common carriers subject to the provisions of the act to regulate common carriers subject to the provisions of the act to regulate commerce, and may prescribe the accounts, records, and memoranda which shall be kept by the carriers, which shall be open to examination by the commission through its authorized agents or examiners. Carriers are required to file annual reports with the commission, and such other reports as may from time to time be required.

The commission appoints a secretary, assistant secretary, and clerks, whose duties are not specifically defined by the act; and also appoints attorneys, examiners, inspectors, and special

By the act of June 18, 1910 (Mann-Elkins law), the jurisdic-

By the act of June 18, 1910 (Mann-Elkins law), the jurisdiction of the commission was increased as to through routes and joint rates, freight classification, switch connections, long and short hauls, filing or rejection of rate schedules, investigations on own motion, making reasonable rates, suspension of proposed rates, and other matters. This act also authorized the President to appoint a special commission to investigate questions pertaining to the issuance of railroad stocks and bonds. By act approved August 24, 1912 (sec. 11), a new paragraph was added to section 5 of the act to regulate commerce, by which it is made unlawful after July 1, 1914, for any common carrier subject to the act to regulate commerce to own, lease, operate, control, or have any interest in any competing carrier by water. Jurisdiction is conferred upon the commission to determine questions of fact as to competition, after full hearing, on the application of any railroad company or other carrier, and to extend beyond July 1, 1914, the time during which such ownership or operation of vessels plying elsewhere than through the Panama Canal may continue, when it is found to be in the interest of the public and is of advantage to the convenience and commerce of the people, and not in restraint of competition. At the same time section 6 of the act was amended by adding

a new paragraph conferring upon the commission jurisdiction over transportation of property from point to point in the United States by rail and water, whether through the Panama Canal or otherwise, and not entirely within the limits of a single State, this jurisdiction, under certain conditions, including power to establish physical connection between lines of the rail carrier and the dock of the water carrier by directing the rail carrier to make such connection; to establish through routes and maximum joint rates over such rail and water lines, and to determine the conditions thereof; to establish proportional rates by rail to and from ports, and to determine to what traffic and by rail to and from ports, and to determine to what traffic and in connection with what vessels and upon what terms and conditions such rates shall apply; and to require rail carriers entering into through routing arrangements with any water carrier to extend the privileges of such arrangements to other water carriers.

By the act approved March 1, 1913, amending the act to regulate commerce, the commission is directed to investigate, ascertain, and report the value of all the property owned or used by every common carrier subject to the provisions of the act.

The Commission has jurisdiction to enforce certain provisions of the act approved October 15, 1914, to supplement existing laws against unlawful restraints and monopolies in so far as laws against unlawful restraints and monopolies in so far as such provisions relate to carriers subject to the act to regulate commerce. With certain exceptions, the act prohibits carriers from discriminating between purchasers in sales of commodities and from making leases or sales of commodities and from acquiring stock or capital of other corporations engaged in commerce, tending to substantially lessen competition or create a monopoly; makes it a felony for a president or other specified officers to misappropriate a carrier's funds; provides that after two years from the approval of the act no carrier shall have dealings in supplies or securities, or contract for construction or maintenance to the amount of more than \$50,000 in the aggregate in any one year, with another corporation or organization. gate in any one year, with another corporation or organization, when by reason of common officers or otherwise there exists a community of interest between the carrier and such other cor-

when by reason of common omcers of otherwise there exists a community of interest between the carrier and such other corporation or organization, except as a result of free competitive bidding under regulations to be prescribed by the commission. The commission is authorized to investigate violations of the act by carriers, and to require the guilty parties to cease therefrom; and its findings of fact in such investigations shall be conclusive when supported by testimony.

The act of February 11, 1903, provides that suits in equity brought under the act to regulate commerce, wherein the United States is complainant, may be expedited and given precedence over other suits, and that appeals from the circuit court lie only to the Supreme Court. The act of February 19, 1903, commonly called the Elkins law, probibits rebating, allows proceedings in the courts by injunction to restrain departures from published rates, and provides that cases prosecuted under the direction of the Attorney General in the name of the commission shall be included within the expediting act of February 11, 1903.

Under the act of August 7, 1888, all Government-aided railroad and telegraph companies are required to file certain reports and contracts with the commission, and it is the commission's duty to decide questions relating to the interchange of husiness between such Government-aided relearant command.

ports and contracts with the commission, and it is the com-mission's duty to decide questions relating to the interchange of business between such Government-aided telegraph company and any connecting telegraph company. The act provides pen-alties for failure to comply with the act or the orders of the

The act of March 2, 1893, known as the "Safety Appliance

Act," provides that railroad cars used in interstate commerce must be equipped with automatic couplers, and drawbars of a must be equipped with automatic couplers, and drawbars of a standard height for freight cars, and have grab irons or handholds in the ends and sides of each car; and that locomotive engines used in moving interstate traffic shall be equipped with a power driving-wheel brake and appliances for operating the train-brake system. The act directs the commission to lodge with the proper district attorneys information of such violations as may come to its knowledge. The act of March 2, 1903, amended this act so as to make its provisions apply to Territories and the District of Columbia, to all cases when couplers of whatever design are brought together, and to all locomotives, cars, and other equipment of any railroad engaged in interstate cars, and other equipment of any railroad engaged in interstate traffic, except logging cars and cars used upon street railways; and provides for a minimum number of air-braked cars in trains. By act of April 14, 1910, the safety-appliance acts were sup-

plemented so as to require railroads to equip their cars with sill steps, hand brakes, ladders, running boards, and roof hand-holds, and the commission was authorized to designate the number, dimensions, location, and manner of application of ap-

pliances

By act of May 6, 1910, the prior accident-reports law was repealed and a new statute passed giving more power to the commission as to investigating accidents, which is more comprehensive than the former law.

The act of March 4, 1907, makes it the duty of the Interstate

The act of March 4, 1907, makes it the duty of the Interstate Commerce Commission to enforce the provisions of the act wherein it is made unlawful to require or permit employees engaged in or connected with the movement of trains to be on duty more than a specified number of bours in any 24.

The act of May 30, 1908, directs the Interstate Commerce Commission to make regulations for the safe transportation of explosives by common carriers engaged in interstate commerce. A penalty is provided for violations of such regulations.

The act of May 30, 1908, makes it the duty of the Interstate Commerce Commission to enforce the provisions of the act wherein it is provided that after a certain date no locomotive shall be used in moving interstate or foreign traffic, etc., not equipped with an ash pan which can be emptied without requiring a man to go under such locomotive. A penalty is provided for violations of this act.

duling a man to ge the violet for violations of this act.

The act of February 17, 1911, confers jurisdiction upon the commission to enforce certain provisions compelling railroad companies to equip their locomotives with safe and suitable

companies to equip their locomotives with safe and suitable boilers and appurtenances thereto.

The urgent deficiency appropriation act, approved October 22, 1913, contains an appropriation of \$25,000 to enable the commission to investigate and report in regard to block signals and appliances for the automatic control of railway trains and appliances or systems intended to promote the safety of railway operation, including experimental tests of such systems and appliances as shall be furnished, in completed shape, to the commission for investigation and test, free of cost to the Government, in accordance with the provisions of joint resolution approved June 30, 1906, and sundry civil appropriation act approved August 1, 1914, for continuing the investigation and testing of these systems and appliances. The act of October 22, 1913, also provided that the Commerce Court should be abolished after December 31, 1913, and that the jurisdiction vested in said court under act approved June 18, 1910, be transferred to and vested in the several district courts of the United States. of the United States.

THE CHAMBER OF COMMERCE OF THE UNITED STATES OF AMERICA

The Chamber of Commerce of the United States of America was organized at the National Commercial Conference called by the President of the United States and held at Washington, D. C., April 22–23, 1912.

D. C., April 22-23, 1912.

Purposes.—To encourage and promote the organization of associations of business men in all parts of the country. To study the work of existing organizations and their value to their representative trades and communities, and to clear the information thus acquired for the benefit of all organizations desiring to increase their efficiency. To advocate the standardization of association methods and of association effort, and to urge the adoption of those standards which have been found most effective in so far as they may be applicable to local or trade conditions. To study the work performed by all govern-

ment bureaus in any way related to the commerce of the country, to encourage and support appropriation measures for their further development and to utilize the data which they gather by directing it into the channels to which it is immediately applicable. To carefully analyze all statistics with regard to the production and distribution of our manufactures at home and abroad; to be watchful of every influence calculated to retard our commercial development, and to become a source of information with respect to new opportunities for trade expansions, especially in foreign markets.

When debatable policies affecting our national commerce are advocated by the federal authorities, there should be a recognized organization capable of expressing the business opinion of the entire country available for conference, alike

to the executive and legislative branches of the govern-

It is the purpose of the Chamber of Commerce of the United States of America to act in this capacity—not to originate legislation, nor to be unnecessarily critical of legislation proposed by others, but rather to assume that the national government desires to act in harmony with the commercial interests of the country, and will accept our co-operation in an endeavor to make all business legislation constructive.

ORGANIZATION MEMBERSHIP.—The Chamber of Commerce of the United States of America is a federation of the commercial organizations. Every commercial or manufacturers' association not organized for private purposes shall be eligible for membership in the Chamber. Such associations shall be of two classes: first, local and state commercial or business organizations whose chief purpose is the development of the commercial and industrial interests of a single state, city, or locality; second, local, state, interstate or national organizations, whose membership

is confined to one trade or group of trades.

REPRESENTATION.—Each organization member of the Chamber of Commerce of the United States of America, shall be entitled to one delegate and one vote for the first twenty-five members, and one delegate and one vote for each additional two hundred and one delegate and one vote for each additional two hundred members in excess of twenty-five, but no member shall be en-titled to more than ten delegates and ten votes. Organizations having less than twenty-five members may be admitted to membership, if in the judgment of the Board of Directors their importance would justify their admission, and these shall be entitled to one delegate and one vote.

The organization membership at the present time consists of over 650 commercial and trade organizations representing over

275,000 corporations, firms, and individuals, among which every state in the Union is represented, as well as Hawaii, Alaska, Porto Rico, the Philippines, and the American Chambers of Commerce in foreign countries.

INDIVIDUAL MEMBERSHIP.—Persons, firms, or corporations who are members in good standing of any organization admitted to the Chamber are eligible for election as individual members. Individual members are require the regular publications of the

Individual members receive the regular publications of the Chamber and they may avail themselves of the facilities of the National Headquarters; may attend all regular and special meetings of the Chamber, and subject to the rules of such meetings, may have the privilege of the floor, but they are not entitled to vote except as duly accredited delegates of organizations.

The individual membership is limited to 5,000 and at the present time consists of more than 4,300 individuals, firms, or

present time consists of more than 4,300 individuals, firms, or corporations representing merchants, manufacturers, lawyers, bankers, engineers, railroad officials, and other business men in all parts of the country.

SERVICE.—Among the service features may be noted a division of information, the publication of weekly legislative bulletins during sessions of Congress in which are given the digests of current and national legislation, business bulletins giving members notice of all government activities affecting the business of the country, announcements regarding such matters as the Interstate Commerce Commission, the Income Tax, the Federal Reserve Board, etc. Another feature is the publication of a monthly organ entitled "The Nation's Business," containing information regarding national questions affecting commerce and industry. The national headquarters are at Washington, D. C.

THE BOY SCOUTS OF AMERICA

The Boy Scouts of America was incorporated under the laws of the District of Columbia Feb. 8, 1910. There are now Boy Scouts in every state in the Union, and in nearly every town with a population of over 4,000. The organization has a membership of over 300,000 boys. New York has the largest enrolment, Pennsylvania and New Jersey ranking next. National headquarters are at 200 Fifth Avenue, New York. President Wilson is honorary president of the Boy Scouts of America, and William H. Taft and Theodore Roosevelt are honorary vice-presidents. Colin H. Livingstone, Washington, D. C., is president of the National Council and Executive Board.

presidents. Colin H. Livingstone, Washington, D. C., is president of the National Council and Executive Board.

The Boy Scouts provide teaching and guidance for boys from 12 to 18 years of age. Not military in character, the organization aims at teaching loyalty, patriotism, and chivalry, and advocates universal peace. Service, not warfare, is the underlying principle. The motto is, "Be prepared." On becoming a member a boy promises to do his best to do his duty to God and his country, to obey the scout law, to help other people at all times, to keep physically strong, mentally awake, and morally straight. The scout law requires that a boy be trustworthy, loyal, helpful, friendly, courteous, kind, obedient, cheerful, thrifty, brave, clean, and reverent. The scout cannot accept tips for aiding those in need of help. There are three classes of scouts, the "tenderfoot," second-class scout, and first-class scout. To enter each class a boy must know how to do certain things, among which are tying knots, giving first aid, signalling, building a fire in the open, cooking, swimming, using the hatchet and axe, earning and depositing money in the bank; and he must know the composition and history of the flag and the customary form of showing the respect due to it. A group of eight or more boys may organize by application to the local or national scout headquarters. Eight boys make a patrol, one being the patrol leader and another the assistant patrol leader. Three or more patrols make a troop, and each troop must have a man the patrol leader and another the assistant patrol leader. Three or more patrols make a troop, and each troop must have a man at least 21 years old as scout master. The annual membership and registration fee is 25c. A uniform is not necessary, but a scout usually wants one, and is advised by the organization to earn it, together with any other equipment he may desire.

The movement was started originally in England, by General Sir Robert Baden-Powell. It has spread to twenty-seven countries, and has a membership of about 2,000,000. In the five years since the organization was incorporated here, the Boy Scouts have made a record of valued service.

During the summer Columbia University provides in Teachers College two courses in scouting, one for teachers and social workers, the other for scout masters and scout executives; and a model camp is maintained by the New York organization near

Van Cortlandt Park. Training courses have also been given at Harvard University, Amherst Agricultural College, Carnegie Institute, and at the Universities of Chicago, Virginia, Texas, Wisconsin, California, Minnesota, Pittsburg, Cornell, Iowa State and Boston.

UNITED STATES BOY SCOUTS

The United States Boy Scouts were formerly the American Boy Scouts, organized April 8, 1909. It is a national organization, governed along the same lines as the United States Army and Navy, and aims to build up a moral and national defense. and Navy, and aims to build up a moral and national detense. Boys from 8 to 12 years of age may become Junior Scouts, and boys from 12 to 18 may become Senior Scouts. A patrol consists of seven scouts, under command of a patrol leader or corporal. Three patrols make a troop, commanded by an assistant scout master with the rank of captain. Two or more troops make a battalion, commanded by a scout master with the rank of major. The organization is non-sectarian, and there are no dues, fees or charges. The national headquarters are at 68 William Street, New York.

CAMP FIRE GIRLS

An organization of girls under twelve, each group being under the guardianship of an older woman. There is also an auxiliary organization of girls over six, called the Camp Fire Blue Birds.

Camp Fire is a society with the object of doing for girls what the Boy Scouts organization does for boys. The idea is to get together the ablest girls and women, and train them in team work, which will enable and incline them to give woman's service to the community, and promote happy social life. It is an army of girls, rather than a mission to them. "To make the spirit of the home dominate the entire community" is the object. Hence, the ranks are recruited from those who have the ability to do and to help, rather than from those who have the ability to do and to help, rather than from those who need help. Members of the Camp Fire desire to seek beauty, give service, pursue knowledge, be trustworthy, hold on to health, glorify work, and be happy. Camp Fire uses beautiful ceremonies, bases rank and honors on personal attainment, has attractive ceremonial customs, honor beads and decorations. There are more than three hundred "honors", grouped under the heads: Health Craft, Camp Craft, Nature Lore, Home Craft, Hand Craft, Business, and Patriotism.

Camp Fire was first publicly announced March 17th, 1912,

Camp Fire was first publicly announced March 17th, 1912, although the spring of 1911 saw the real beginning of the society. The total membership is now over 40,555 girls and over 4,000 guardians. Headquarters are at 461-4th Avenue, New York, and the president is Luther H. Gulick, M.D.

RULES OF PARLIAMENTARY PROCEDURE

VITH PLAIN ANSWERS TO MORE THAN TWO HUNDRED PARLIAMENTARY QUERIES

From the Authorized Revision of Cushing's Manual of Parliamentary Practice, by permission of the publishers, E. P. Dutton & Co., 681 Fifth Ave., New York. For more detailed information consult this manual.

NOTE.—Questions in this column stand in the order of rank.

PRIVILEGED QUESTIONS
TAKE PRECEDENCE OF ALL OTHER MOTIONS To Fix the Time for Reassembling. (To Adjourn) = 1 To Take a Recess =

QUESTIONS OF PRIVILEGE || †

(Orders of the Day) = * †

SUBSIDIARY QUESTIONS

YIELD TO THE ABOVE UNLESS APPLIED TO THEM
(Question of Consideration) * †
(To Lay on the Table) =
(The Previous Question) =
POSTPONE TO A CERTAIN DAY =
TO COMMIT, OR RECOMMIT =
(ANNINUMENT) AMENDMENT OF AN AMENDMENT)
AMENDMENT OF THE MAIN QUESTION
AMENDMENT REMOVING MAIN QUESTION (POSTPONE INDEFINITELY)

NOTE. Questions in this column have no fixed order of rank.

INCIDENTAL QUESTIONS
SUPERSEDE QUESTIONS GIVING RISE TO THEM
(Questions of Order—entitled to precedence) * † (APPEAL FROM DECISION OF CHAIR) || (Questions as to Reading Papers) (Leave to Withdraw a Motion) (To Suspend the Rules) ‡
To Make a Special Order
To Determine Mode of Procedure
To Divide the Question (Nominations and Filling Blanks) *

SUPPLEMENTARY QUESTIONS

EXCEPT RECONSIDER, THESE HAVE NO PRIVILEGE (To Take from the Table) == TO RESCIND OR REPEAL !

Explanation of Reference Marks

* Need not be seconded. May interrupt a speaker.
Cannot be reconsidered.
Renewable after a proper interval.
Cannot be amended.
May be laid on the table.
Italics—a two-thirds vote required.

THE AMERICAN HALL OF FAME

THE AMERICAN HALL OF FAME

In March, 1900, Chancellor MacCracken, of New York University, announced that \$250,000 had been given that institution for a Hall of Fame of Great Americans. The conditions were that 50 names might be chosen in 1900 and 5 more each succeeding 5 years through the twentieth century. One hundred electors from all of the 45 States were asked to make nominations and to indicate each one, his choice of 50 names. On Oct. 1, 1900, it appeared that 29 names had received a majority of 51 votes. These were approved by the Senate (which has the power of veto), the number of votes for each being as follows: George Washington, 97; Abraham Lincoln, 96; Daniel Webster, 96; Benjamin Franklin, 94; Ulyses S. Grant, 93; John Marshall, 91; Thomas Jefferson, 91; Ralph Waldo Emerson, 87; Robert Fulton, 86; Henry W. Longfellow, 85; Washington Irving, 83; Jonathan Edwards, 82; Samuel F. B. Morse, 82; David G. Farragut, 79; Henry Clay, 74; George Peabody, 74; Nathaniel Hawth he, 73; Peter Cooper, 69; Robert E. Lee, 68; Eli Whitne, 69; John J. Audubon, 67; Horace Mann, 67; James Kent, 65; Henry Ward Beecher, 64; Joseph Story, 64; John Adams, 62; Wm. E. Channing, 58; Gilbert-Stuart, 52; Asa Gray, 51.

In 1904 the constitution of the Hall was amended to provide for choosing separately ten names of famous American women in 1905, and two in each succeeding quinquennium; also six names of foreign-born Americans, and one at each succeeding election. Those chosen in the latter class are printed in capitals. In October, 1905, the Senate received the ballots of 95 electors, of whom only 85 undertook to consider the names of women. A majority of 51 was demanded, but in the case of the names of women a majority of only 47. The following persons were found to be duly chosen: John Quincy Adams, 60; James Russell Lowell, 59; William T. Sherman, 58; James Madison, 56; John G. Whittier, 53; ALEX. HAMILTON, 88; LOUIS AGASSIZ, 83; JOHN PAUL JONES, 55; Mary Lyon, 59; Emma Willard, 50; Maria Mitchell, 48.

In October, 910, the Sen

SMALL CAPITALS—A QUESTION DEBATABLE IN ITSELF. LARGE CAPITALS-OPENS THE WHOLE OUESTION.

All questions thus printed in capitals, large or small, are amenable to the Previous Question to close debate when ordered pending an amendment, the Previous Question closes debate on both amendment and main question.

Charlotte Cushman, actress, 53; Rufus Choate, jurist, 52; Daniel Boone, pioneer, 52 votes.

POLITICAL ASSASSINATIONS SINCE 1865
Following is a list of rulers and ministers assassinated since 1865:
Abraham Lincoln, President of the United States, April 14,

Michael, Prince of Serbia, June 10, 1868. Prim, Marshal of Spain, December 28, 1870. Richard, Earl of Mayo, Governor-General of India, February

1872 Abdul Aziz, Sultan of Turkey, June 4, 1876. Alexander II. of Russia, March 13, 1881. James A. Garfield, President of the United States, July 2,

Marie Francois Sadi-Carnot, President of France, June 24,

94. Stanislaus Stambouloff, Premier of Bulgaria, July 25, 1895. Nasr-Ed-Din, Shah of Persia, May 1, 1896. Canovas Del Castillo, Prime Minister of Spain, August 8,

Juan Idiarte Borda, President of Uruguay, August 25, 1897.
Jose Maria Reyna Barrios, President of Guatemala, February 18, 1898.
Empress Elizabeth of Austria, September 10, 1898.
Humbert, King of Italy, July 29, 1900.
William McKinley, President of the United States, September 6, 1001

William McKinley, President of the United States, September 6, 1901.

Alexander, King of Serbia, June 11, 1903.
Draga, Queen of Serbia, June 11, 1903.
Bobrikoff, Governor-General of Finland, June 16, 1904.
Von Plehve, Russian Minister of the Interior, July 28, 1904.
Carlos, King of Portugal, February 1, 1908.
Louis Phillippe, Prince Royal of Portugal, February 1, 1908.
Luis, Crown Prince of Portugal, February 1, 1908.
Sergius, Grand Duke of Russia, March 13, 1908.
Marquis Ito of Japan, October 26, 1909.
Peter Arcadowitch Stolypin, Fremier of Russia, September 14, 1911.

Peter Arcadowitch Stolypin, Fremier of Kussia, September 14, 1911.

Jose Canalejas, Prime Minister of Spain, November 12, 1912.

Nazim Pasha, Turkish Minister of War, January 23, 1913.

Francisco I. Madero, President of Mexico, February 23, 1913.

Jose Pino Suarez, Vice-President of Mexico, February 23,

George, King of Greece, March 18, 1913. Archduke Francis Ferdinand, heir to Austrian Throne, June

28, 1914,

PATENTS AND TRADE-MARKS

PATENTS

INVENTIONS PATENTABLE.—Any person who has invented or discovered any new and useful art, machine, manufacture, or composition of matter, or any new and useful improvements thereof, not known or used by others in this country before his invention or discovery thereof, and not patented or described in any printed publication in this or any foreign country, before his any printed publication in this or any foreign country, perore his invention or discovery thereof, for more than two years prior to his application, and not in public use or on sale in this country for more than two years prior to his application, unless the same is proved to have been abandoned, may, upon payment of the fees required by law, and other due proceedings had, obtain a patent.

APPLICATION.—Application is to be made in writing, to the Commissioner of Patents, giving a description of the article, and of the manner and process of making, constructing, compounding, and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art or science to which it appertains, or with which it is most nearly connected, to make construct compound and use the server. which it appertains, or with which it is most nearly connected, to make, construct, compound, and use the same; and in case of a machine, he shall explain the principle thereof, and the best mode in which he has contemplated applying that principle, so as to distinguish it from other inventions; and he shall particularly point out and distinctly claim the part, improvement, or combination which he claims as his invention or discovery. The specification and claim shall be signed by the inventor and attested by two witnesses. inventor and attested by two witnesses.

OATH.—The applicant shall make oath that he does verily believe himself to be the original and first inventor or discoverer of the art, machine, manufacture, composition or improvement for which he solicits a patent; that he does not know and does not believe that the same was ever before known or used; and shall state of what country he is a citizen.

PATEMS FOR DESIGNS AUTHORIZED.—Any person who has invented any new, original, and ornamental design for an article of manufacture, not known or used by others in this country before his invention thereof, and not patented or described in any printed publication in this or any foreign country before his invention thereof, or more than two years prior to his application, and not in public use or on sale in this country for more than two years prior to his application, and not in public use or on sale in this country for more than two years prior to his application, unless the same is proved to have been abandoned, may, upon payment of the fees and other due proceedings had, the same as in cases of invention or discoveries, obtain a patent therefor.

DRAWINGS .- Drawings must be made with India ink alone, Drawings.—Drawings must be made with India ink alone, on pure white paper, the thickness of three sheets of Bristol board, and containing a calendared and smooth surface. All drawings must be made with pen only and every line and letter, signature and shading must be absolutely black. The size of the sheet must be exactly 10x15 inches, and there must be an inch margin on each side, leaving the "sight" exactly 8x13 inches. When the view is longer than the width of the sheet, it may be turned on its side, while the signature of the proprietor of the trade mark must be placed at the lower left hand corner, but, in no instance, shall they encroach upon the drawing. Drawings must be packed flat or rolled for transmission to the Patent Office—not folded.

Foreign Patents.—No person otherwise entitled thereto shall be debarred from receiving a patent for his invention or discovery, nor shall any patent be declared invalid by reason of its having been first patented or caused to be patented by the inventor or his legal representatives or assigns in a foreign country, unless the application for said foreign patent was filed more than twelve months, in cases within the provisions of section forty-eight hundred and eighty-six of the Revised Statutes, and four months in cases of designs, prior to the filing of the application in this country, in which case no patent shall be granted in this country.

CONTENTS AND DURATION .- Every patent shall contain a short title or description of the invention or discovery, correctly indicating its nature and design, and a grant to the patentee, his heirs or assigns, for the term of seventeen years, of the exclusive right to use the invention throughout the United States, referring to the specification for the particulars thereof.

FEES.—Filing each original application for a patent, except in design cases, \$15.

Issuing each original patent, except in design cases, \$20.

In design cases: For three years and six months, \$10; seven years, \$15; for fourteen years, \$30.

Every application for the reissue of a patent, \$30.

Filing each disclaimer, \$10.

An appeal for the first time from the primary examiners to the

examiners-in-chief, \$10.

Every appeal from the examiners-in-chief to the Commis-

sioner, \$20.

Copies of records in the Patent Office, ten cents per hundred words; if certified twenty-five cents additional for each certific-

For recording every assignment, power of attorney, or other paper, of three hundred words or under, \$1; of over three hundred and under one thousand words, \$2; and for each additional thousand words or fraction therof, \$1.

Printed copies of specifications and drawings of United States patents are furnished for five cents each; certified copies of such drawings and specifications, twenty-five cents additional for each certification.

For photographic copies of drawings, twenty-five cents each. The Patent Office advises applicants to avoid doing business with attorneys who advertise the possession of unusual facilities or obtaining patents. A model should not be filed unless asked or by the office.

TRADE-MARKS

WHO MAY REGISTER .- A trade-mark may be registered by any person, firm, corporation, or association domiciled within the territory of the United States, or residing in or located in any foreign country which, by treaty, convention, or law, affords similar privileges to the citizens of the United States, and who is the owner of such trade-mark, and uses the same in commerce with foreign nations, or among the several States, or with Indian tribes, upon payment of the fee required by law and other due proceedings had.

APPLICATION.—An application for the registration of a trademark must be made to the Commissioner of Patenta and must be signed by the applicant. The complete application comprises: (1) A petition, requesting registration, signed by the applicant. (2) A statement specifying the name, domicile, location, and citizenship of the party applying, and if the applicant be a corporation or association, the State or nation under the laws of which organized; the class of merchandize (according to the official classification), and the particular description of goods comprized in such class upon which the rade-mark has actually been used; a statement of the mode in which the same is applied and affixed to the goods, and the length of time during which the trade-mark has been used upon the goods specified. A description of the trade-mark tiself shall be included, if desired by the applicant or required by the Commissioner, provided such description is of a character to meet the approval of the Commissioner. (3) A drawing of the trademark, signed by the applicant, or his attorney, which shall be a facsimile of the same as actually used upon the goods. APPLICATION.—An application for the registration of a trade-

the goods.
WHAT MAY BE REGISTERED.—No trade-mark will be regis-What May Be Registered.—No trade-mark will be registered unless it shall be made to appear that the same is used as such by said owner in commerce among the several States, or between the United States and some foreign nation or Indian tribe; no trade-mark will be registered which consists of, or comprizes the flag or coat of arms or other insignia of the United States, or any simulation thereof, or of any State or municipality, or of any foreign nation, or which consists of or comprizes any design or picture that has been adopted by any fraternal society as its emblem, or of any name, distinguishing mark, character, emblem, colors, flag, or banner adopted by any institution, organization, club, or society which was incorporated in any state in the United States prior to the date of the adoption and use by the applicant: or which trade-mark is identical with a registered or known trade-mark owned and in use by another, and appropriated to merchandize of the same descriptive properties, or which so nearly resembles a registered or another, and appropriated to merchandize of the same de-scriptive properties, or which so nearly resembles a registered or known trade-mark owned and in use by another, and appro-priated to merchandize of the same descriptive properties as to

TRADE-MARKS-(Continued)

be likely to cause confusion or mistake in the mind of the public, or which consists merely in the name of an individual, firm, corporation, or association, not written, printed, impressed, or woven in some particular or distinctive manner or in association with a portrait of the individual, or merely in words or devices which are descriptive of the goods with which they are used, or of the character or quality of such goods, or merely a geographical name or term: no portrait of a living individual will

be registered as a trade-mark, except by the consent of such be registered as a trade-mark, except by the consent of such individual evidenced by an instrument in writing: and no trade-mark will be registered which is used in unlawful business, or upon any article injurious in itself, or which has been used with the design of deceiving the public in the purchase of merchandise, or which has been abandoned. (In an act approved Feb. 18, 1911, a provision was made permitting the name or part of the name of the applicant to serve.)

A DECADE OF PATENT OFFICE BUSINESS

Year	Applications	Caveats filed	Patents and reissues	Cash received	Cash expended	Surplus
1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914	56,482 58,762 61,475 65,839 64,629 67,370 70,976 70,367	1,808 1,896 1,885 1,967 2,110 1,948 970 (1)	35,788	1,6573,26.53 1,806,758.14 1,790,921.38 1,910,618.14 1,896,847.67 2,042,828.14 2,025,536.69 2,019,388.03 2,101,199.09 2,084,417.79 2,233,932.82	\$1,476,000.38 1,479,633.22 1,554,891.20 1,631,458.36 1,712,303.42 1,955,151.14 2,005,711.94 1,953,689.91 2,022,066.11 1,947,383.28	\$181,326.15 327,124.92 236,030.18 279,159.78 184,544.25 87,677.00 19,824.75 65,698.12 79,133.79 137,034.51

¹ No caveats filed after June 30, 1910; law repealed.

DUST PREVENTION

(Source: Bulletin 27, State of Ohio Highway Department.)

"Dust is an annoyance to pedestrians and vehicular passen-"Dust is an annoyance to pedestrians and vehicular passengers; it soils clothes and vehicles, and the curtains, carpets and furniture of residents along highways. By forming a heavy coating on the foliage of plants it injures the crops. It carries disease germs, and by obscuring the traveled way it is sometimes a source of danger. These facts justify us in seeking a means of reducing the evil to a minimum," says a bulletin issued by the state of Ohio Highway Department.

Dusty thoroughfares are due to three causes: (1) foreign matter thrown into the roads; (2) actual wear of the road material; (3) improper road construction.

Under the first heading may be included objects dropped from vehicles, animal excrement, dirt tracked from muddy fields or crossroads, ashes, and sweepings from buildings and yards. For the general good, individuals should avoid throwing ashes and sweepings into the roadway, where they will be scattered and add to the dust. Where a muddy road crosses a paved highway it is well to surface the dirt road with broken stone for some distance back of the intersection, or with cobblestones 4" to 8" in diameter. This is rough traveling, and will cause the dirt to drop from the wheels before vehicles reach the cleaner pavement.

Dust is also caused by the wear of wheels and hoofs, aided by disintegration of the surface caused by wind, frost and rain. Frequent sweeping or dragging of the road will keep it smooth and comparatively free from dust so generated. Furthermore, elimination of ruts will secure a better distribution of traffic, and if the traffic is distributed over twice the width of road generally used, only half the thickness of dust should be produced. Traveling in a single track causes ruts, an abnormal amount of dust, and the destruction of the road. Dragging should be done after a wet period, because then the surface will form a smooth crust. The surface should never be swept or dragged when dry. Dust may have its origin in an improper road foundation. Dust is also caused by the wear of wheels and hoofs, aided

Dust may have its origin in an improper road foundation. For instance, if a brick pavement is laid with the joints filled with sand or other material which will not hold the bricks rigid, mud will work through after rainy periods and during thaws in spring, and cause considerable dust when dried.

The importance of proper road construction cannot be too greatly emphasized. Granted a well made road, thorough and systematic cleaning or dragging will keep down the dust.

When the mud begins to dry in the spring is a good time to clean a gravel or macadam road. All mud and debris should

be scraped into piles and taken away; gutter and ditch cleanings should never be thrown back onto the traveled surface where it will be ground up into dust.

The only way to prevent dust on brick, concrete, wood or bituminous pavements is to remove the refuse by sweeping during the day, supplemented by flushing with water at night. The sweeping should be preceded by sprinkling to prevent dust

Part of the expense of cleaning may be met by selling the

clouds. Part of the expense of cleaning may be met by selling the sweepings for fertilizer. However, sweepings from oiled roads, and from streets having heavy automobile traffic, should not be used for this purpose, because the bad effect of the oils and grease counteracts the beneficial effect of the fertilizer.

A road should be so made that the surface is as suitable to drive over in one place as in another. Roads should be built with a minimum crown. The flatter the crown the less tendency there is to concentrate traffic in the center of the road. Wide roads are best, because the wider the paved part, the more traffic will tend to distribute itself over the surface.

Having exhausted all the means of preventing excessive dust, by proper road construction, even distribution of wear, and cleanliness, there remains what may be termed a normal amount of dusc. This can be allayed and in some cases prevented by the use of proper pallatives. Before applying them, however, the roads should be clean and absolutely free from holes and ruts. In general it is better to give the middle of the road a heavier application than the sides. These temporary layers of dust include water, salt solutions, oil and tar emulsions, the lighter oils and tars, and various chemical compounds. More permanent preventives include the heavier tars and oils. Tars and oils should only be applied to warm, dry surfaces.

POSTER STAMPS

POSTER STAMPS

The origin of the poster stamp may be traced to Germany where certain decorative stamps were used about 20 years ago. The first exhibition of poster stamps was held in 1909. The popularity of the idea seems established firmly not only among collectors, but as a useful method of advertising and for philanthropic purposes. Business houses are adopting the notion, and some of the cleverest artists of the day have designed poster stamps for them. They are also being employed for propaganda purposes by societies. Various War Funds have benefitted by the sale of special stamps. the sale of special stamps.

² Not reported.

BAGGAGE OF INCOMING PASSENGERS

Paragraph 642, appearing in the free list of the present tariff act, reads as follows:

act, reads as follows:

642. Wearing apparel, articles of personal adornment, toilet
articles, and similar personal effects of persons arriving in the
United States; but this exemption shall include only such articles as were actually owned by them and in their possession
abroad at the time of or prior to their departure from a foreign
country, and as are necessary and appropriate for the wear and
use of such persons and are intended for such wear and use, and
shall not be held to apply to merchandise or articles intended for use of such persons and are intended for such wear and use, and shall not be held to apply to merchandise or articles intended for other persons or for sale: Provided, That in case of residents of the United States returning from abroad all wearing apparel, personal and household effects taken by them out of the United States to foreign countries shall be admitted free of duty, without regard to their value, upon their identity being established under appropriate rules and regulations to be prescribed by the Secretary of the Treasury: Provided Jurther, That up to but not exceeding \$100 in value of articles acquired abroad by such residents of the United States for personal or household use or as souvenirs or curios, but not bought on commission or intended for sale, shall be admitted free of duty.

BAGGAGE DECLARATIONS

The law requires that every person entering the United States shall make a declaration and entry of personal baggage. The

senior member of a family present as a passenger may, however, declare for the entire family.

A failure to declare articles acquired abroad and brought in as baggage renders the articles subject to forfeiture and the passengers liable to criminal prosecution. (Sections 2802 and 3082, R. S.)

Returning residents of the United States should use the form of declaration printed in black; nonresidents should use the form printed in red.

the form printed in red.

The exact number of pieces of baggage accompanying a passenger must be stated in the declaration, including trunks, valises, boxes, hand bags, and packages or bundles of every kind. Forms of baggage declarations will be furnished passengers by the steamship officers. The declaration should be prepared and signed at least one day before the expected arrival of the vessel. Declarations spoiled in preparation should not be destroyed, but should be turned over to the purser, who will furnish a new blank.

When the declaration has been prepared and signed, the coupon at the bottom of the form must be detached and retained by the passenger and the declaration delivered to the ship's officer designated to receive the same. After all the baggage and effects of the passenger have been landed, the coupon which has been retained must be presented at the inspector's desk and an inspector will then be detailed to examine the baggage.

Passengers must acknowledge in person, on the pier, their

Passengers must acknowledge in person, on the pier, their signatures to the declarations.

RETURNING RESIDENTS OF THE UNITED STATES

Returning residents of the United States must declare all articles acquired abroad, in their baggage or on their persons, whether by purchase, by gift, or otherwise, and whether dutiable or free of duty. Exemption, however, will be allowed by customs officers of articles aggregating not over \$100 in value, if suitable for personal or household use or as souvenirs or curios, and whether intended for the personal use of the passengers or as gifts or presents to others, provided the articles are not bought on commission for another person nor intended for sale. Articles so exempt from duty must, nevertheless, be declared.

Articles belonging to one passenger can not be included in the exemption of another.

Use does not exempt from duty wearing apparel or other articles obtained abroad. Such articles which have been used abroad may, however, be specifically noted on the declaration and due allowance will be made by the appraising officers for depreciation through wear and use and duties charged upon the articles at their value in their condition as imported.

Passengers must not deduct the \$100 exemption in making out their declarations. Such deductions will be made by customs officers on the pier.

All wearing apparel, personal and household effects taken out of the United States by residents shall be admitted free of duty

without regard to their value upon their identity being established. If remodeled, repaired, or improved abroad the cost of such remodeling, repairing, or improvement must be declared, and receipted bills for such alterations should be presented. The cost of such repairs is subject to duty, but may be included by customs officers within the \$100 exemption. If the cost or value of the repairs he not declared the articles will be articled. value of the repairs be not declared, the articles will be subject to duty upon their entire value.

Citizens of the United States or persons who have at any time resided in this country shall be deemed to be residents of the United States, unless they shall have abandoned their residence in this country and acquired an actual bona fide residence in a foreign country. Such citizens or former residents who declare as non-residents must present satisfactory evidence to the customs officers upon the pier that they have given up their residence in the United States and have become bona fide Their residence in the country.

The residence of a viife follows that of the husband, and the residence of a minor child follows that of its parents.

The examination of baggage will be facilitated and difficulties avoided if receipted bills for foreign purchases be presented, and if all articles acquired abroad be packed separately in one or more

NONRESIDENTS OF THE UNITED STATES

Nonresidents of the United States must declare all articles in their baggage or on their persons which do not constitute wearing apparel, articles of personal adornment, toilet articles, or similar personal effects, whether intended for their personal use or for others. They must also declare all articles of wearing apparel, jewelry, and other articles of personal adornment, toilet articles, and similar effects when not owned by them or when intended for other persons or for sale.

HOUSEHOLD EFFECTS

Household effects, such as furniture, table linen, bed linen, tableware, etc., imported as baggage must be declared. If shown to the satisfaction of the customs officers to have been actually owned and used abroad by the passenger not less than one year and not intended for any other person nor for sale, such effects will be admitted free of duty. If not so owned and used abroad, duties must be paid thereon, unless included in the \$100 exemption allowed returning residents.

CIGARS AND CIGARETTES

Each passenger over 18 years of age may bring in free of duty 50 cigars or 300 cigarettes, or smoking tobacco not exceeding 3 pounds, if for the bona fide use of such passenger. These articles must be declared, but will be passed free by customs officers in addition to the \$100 exemption.

CONTESTED VALUATION

Passengers dissatisfied with values placed upon dutiable articles by the customs officers on the pier may demand a reexamination. Application therefor should be made to the officers in charge immediately. If, for any reason, this course is impracticable, the packages containing the articles should be left in customs custody and application for reappraisement made to the collector of customs in writing within 10 days after the original appraisement. No request for reappraisement can be entertained after the articles have been removed from customs

Examination of any baggage may be postponed if the passenger requests the officer taking his declaration to have the baggage sent to the appraiser's stores.

Currency or certified checks only can be accepted in payment of duties, but upon request baggage will be retained on the pier for 24 hours to enable the owner to secure currency or certified checks.

The offering of gratuities or bribes to customs officers is a violation of law. Customs officers who accept gratuities or bribes will be dismissed from the service, and all parties concerned are liable to criminal prosecution.

Discourtesy or incivility on the part of customs officers should be reported to the collector at the customhouse, to the deputy collector or deputy surveyor at the pier, or to the Secretary of

BAGGAGE OF INCOMING PASSENGERS-(Continued)

the Treasury. Passengers should not, however, deem customs officers discourteous merely because such officers examine baggage thoroughly or appraise articles at a value different from that stated in the passenger's declaration.

BAGGAGE FOR TRANSPORTATION IN BOND

Baggage containing dutiable articles may be forwarded in bond to any other port of entry upon good reason therefor being

Passengers desiring to have such baggage forwarded in bond should so indicate on their declarations, and also make a request therefor upon the inspector at the time he is assigned to the examination of their baggage. Similar action should be taken when it is desired to have baggage forwarded to another country in transit through the United States.

SEALSKIN GARMENTS

An act of Congress of 1897, as amended in 1912, expressly forbids the importation into the United States of garments made in whole or in part of the skins of seals taken in the waters of the

Pacific Ocean. Unless the owner is able to establish to the satisfaction of the collector that the garments are not prohibited by said act, they can not be admitted.

AIGRETTES AND OTHER PLUMAGE

Paragraph 347 of the present tariff act contains the following

The importation of aigrettes, egret plumes, or so-called osprey plumes, and the feathers, quills, heads, wings, tails, skins, or parts of skins, of wild birds, either raw or manufactured, and not for scientific or educational purposes, is hereby prohibited; but this provision shall not apply to the feathers or plumes of ostriches, or to the feathers or plumes of domestic fowls of any

Any of the above-described prohibited articles will be excluded from entry when brought in by passengers as trimmings on hats or other articles of wearing apparel, and will be con-fiscated whether found in the baggage or on the person. In cases where there has been no willful intent to violate the law, such prohibited articles may be exported to a foreign country.

IMMIGRATION LEGISLATION

The question of whether the illiteracy test should be applied to immigrants entering this country, has been before Congress for a number of months. Those who believe it should, reason that we are letting in too many immigrants of low standard; that they are a drain on our resources. The negative believes that we can not draw any hard and fast rule regarding an

that we can not draw any hard and last rule regarding an illiteracy test, arguing that some of our very best foreign citizens entered this country as young men unable to read and write. On February 15, 1914 the House of Representatives possed an Immigration Act incorporating an illiteracy test. The part of this bill having reference to such a test is as follows:

"That after four months from the consequel of this Act is."

Immigration Act incorporating an illiteracy test. The part of this bill having reference to such a test is as follows:

"That after four months from the approval of this Act, in addition to the aliens who are by law now excluded from admission into the United States, the following persons shall also be excluded from admission thereto, to wit:

All aliens over sixteen years of age, physically capable of reading, who can not read the English language, or some other language or dialect, including Hebrew or Yiddish; persons who can not become eligible, under existing law, to become citizens of the United States, by naturalization, unless otherwise provided for by existing treaties or agreements as passports, or by treaties, conventions, or agreements that may hereafter be entered into. The provision next foregoing, however, shall not apply to persons of the following stations or occupations: Government officers, ministers or religious teachers, missionaries, lawyers, physicians, chemists, civil engineers, teachers, students, authors, merchants, and travelers for curiosity or pleasure, nor to their legal wives or their children under sixteen years of age who shall accompany them or who subsequently may apply for admission to the United States, but such persons or their legal wives or any alien may designate the particular language or dialect in which he desires the examination to be made, and shall be required to read the words printed on the slip in such language or dialect. That the following classes of persons shall be exempt from the operation of the illiteracy test, to wit: "All aliens who shall prove to the satisfaction of the sup in such language or dialect. I hat the following classes of persons shall be exempt from the operation of the illiteracy test, to wit: All aliens who shall prove to the satisfaction of the proper immigration officer or to the Secretary of Labor that they emigrated from the country of which they were last permanent residents solely for the purpose or escaping from religious persecution; all aliens who have been lawfully admitted to the United States and who have resided therein continued.

ously for five years, and who have in accordance with the law delared their intention of becoming citizens of the United States and who return to the United States within six months declared their intention of becoming citizens of the United States and who return to the United States within six months from the date of their departure therefrom; all aliens in transit through the United States; all aliens who have been lawfully admitted to the United States and who later shall go in transit from one part of the United States to another through foreign contiguous territory. Provided, That nothing in this Act shall exclude, if otherwise admissible, persons convicted of or legally charged with an offense purely political, not involving moral turpitude. Provided further, That the provisions of this Act relating to the payments for tickets or passage by any corporation, association, society, municipality, or foreign Government shall not apply to the tickets or passage of aliens in immediate and continuous transit through the United States to foreign contiguous territory. Provided further, That skilled labor, if otherwise admissible, may be imported if labor of like kind unemployed can not be found in this country, and the question of the necessity of importing such skilled labor in any particular instance may be determined by the Secretary of Labor upon the application of any person interested, such application by the Secretary of Labor to be reached after a full hearing and an investigation into the facts of the case." full hearing and an investigation into the facts of the case.

The Act provides further that provisions of this law applicable to contract labor shall not be held to exclude professional artists, etc.

During the fiscal year ending June 30, 1913, there were approximately 1,375,000 applicants for admission to this country, of whom only about 1.4 per cent. were excluded for all causes. This great influx, composed largely of unskilled laborers, undoubtedly is due largely to the activities of ticket agents and others, who solicit and induce aliens to migrate.

It being obvious that the existing law is not sufficient to meet the serious situation from an economic point of view, growing out of the fact that about 80 per cent of our immigration is composed of aliens belonging to races not of the same stock as the original settlers or the voluntary immigration previous to 25 years ago, it would seem to be incumbent upon Congress to adopt an immigration measure that will be sufficient.

ELECTRIC METER-HOW IT WORKS

The electric meter is really a tiny electric motor, of the most delicate structure and the best workmanship, housed in a little iron and glass box. The revolving part of the motor is an aluminum disk mounted between two electromagnets through which the current to be measured is passed. The current in the disk and this current flowing in the field of the electric magnets causes the disk to revolve with a speed directly proportional to the amount of current that is passing through the magnets. With each complete revolution of the disk a black band is seen to pass the glass-covered aperture in the face of the meter box, and a definite number of revolutions of the disk indicates that

one kilowatt-hour of electricity has passed through the meter.

GAS METER-HOW IT WORKS

The gas meter is very simple. Each meter box incloses a little engine which is operated by the pressure of the gas just as steam engine is operated by steam. Of course the engine does not run except when the gas is turned on beyond the meter, any more than a steam engine would operate if the exhaust were closed. All the gas that is used by the consumer passes through the cylinders of the gas engine and each complete pulse of the engine means that two cubic feet of gas have passed the

COMMISSION ON INDUSTRIAL RELATIONS

The following act was passed by Congress August 23, 1912

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That a commission is hereby created to be called the Commission on Industrial Relations. Said commission shall be composed of nine persons, to be appointed by the President of the United States, by and with the advice and consent of the Senate, not less than three of whom shall be employers of labor and not less than three of whom shall be representatives of organized labor. The Department of Commerce and Labor is authorized to cooperate with said commission in any manner and to whatever extent the

Secretary of Commerce and Labor may approve.
Sec. 2. That the members of this commission shall be paid actual traveling and other necessary expenses and in addition a compensation of ten dollars per diem while actually engaged on the work of the commission and while going to or returning from such work. The commission is authorized as a whole, or by subcommittees of the commission, duly appointed, to hold sittings and public hearings anywhere in the United States, to send for persons and papers, to administer oaths, to summon and compel the attendance of witnesses and to compel testiand compet the attendance of whitesass and to compet the same mony, and to employ such secretaries, experts, stenographers, and other assistants as shall be necessary to carry out the purposes for which such commission is created, and to rent such poses for which such commission is created, and to rent such offices, to purchase such books, stationery, and other supplies, and to have such printing and binding done, as may be necessary to carry out the purposes for which such commission is created, and to authorize its members or its employees to travel in or outside the United States on the business of the commis-

sion. That said commission may report to the Congress its findings and recommendations and submit the testimony taken Indings and recommendations and submit the testimony taken from time to time, and shall make a final report accompanied by the testimony not previously submitted not later than three years after the date of the approval of this Act, at which time the term of this commission shall expire, unless it shall previously have made final report, and in the latter case the term of the commission shall expire with the making of its final report; and the commission shall make at least one report to the Congress within the first year of its appointment and a second

port; and the commission shall make at least one report to the Congress within the first year of its appointment and a second report within the second year of its appointment.

SEC. 4. That the commission shall inquire into the general condition of labor in the principal industries of the United States including agriculture, and especially in those which are carried on in corporate forms; into existing relations between employers and employees; into the effect of industrial conditions on public welfare and into the rights and nowers of the community to deal. welfare and into the rights and powers of the community to deal therewith; into the conditions of sanitation and safety of emtherewith; into the conditions of sanitation and safety of employees and the provisions for protecting the life, limb, and health of the employees; into the growth of associations of employers and of wage earners and the effect of such associations upon the relations between employers and employees; into the extent and results of methods of collective bargaining; into any methods which have been tried in any State or in foreign countries for maintaining mutually satisfactory relations between employees and employers; into methods for avoiding or adjusting labor disputes through peaceful and conciliatory mediation and negotiations; into the scope, methods, and resources of existing bureaus of labor and into possible ways of increasing their usefulness; into the Question of smuggling or other illegal entry of Asiatics into the United States or its insular possessions, and of the methods by which such Asiatics have gained and are and of the methods by which such Asiatics have gained and are gaining such admission, and shall report to Congress as speedily as possible with such recommendation as said commission may think proper to prevent such snuggling and illegal entry. The commission shall seek to discover the underlying causes of dissatisfaction in the industrial situation and report its conclusions

Sec. 5. That the sum of one hundred thousand dollars is hereby appropriated out of any money in the Treasury of the United States not otherwise appropriated for the use of the commission for the fiscal year ending June thirtieth, nineteen hundred and thirteen: Provided, That no portion of this money shall be paid except upon the order of said commission, signed by the chairman thereof: Provided, That the commission may expend not to exceed five thousand dollars per annum for the employment of experts at such rate of compensation as may be fixed by the commission, but no other preson amployed here. employment of experts at such rate of competation as may be fixed by the commission but no other person employed here-under by the commission, except stenographers temporarily employed for the purpose of taking testimony, shall be paid

compensation at a rate in excess of three thousand dollars per annum

In June, 1913, President Wilson appointed Frank P. Walsh

In June, 1913, President Wilson appointed Frank P. Walsh, of Kansas City, an attorney, chairman of the Commission, and named the eight other members as follows:

To serve with Mr. Walsh as representing the general public: Professor John R. Commons of the University of Wisconsin and Mrs. J. Borden Harriman of New York City.

To represent the employers: Frederic A. Delano of Chicago, a railroad president; Harris Weinstock of San Francisco, a merchant; and S. Thurston Ballard of Louisville, a manufacturer.

To represent the employes: John B. Lennon of Bloomington, Ill., treasurer of the American Federation of Labor; James O'Connell of Washington, representative of the metal trades and third vice president of the American Federation of Labor; and Austin B. Garretson, of Cedar Rapids, Iowa, president of the Order of Railway Conductors.

the Order of Railway Conductors.

President Wilson's appointments were confirmed late in the fall of 1913 and the Commission organized just before the end

of the year.

The Commission outlined for itself certain general lines of inquiry, that controlled the scope of the public hearings and the work of its staff. These included an investigation into the methods and policies of organizations of employers and organizations of employes; a survey of public agencies, state and national, charged with regulating industrial conditions; an investigation of unskilled labor and its problems, such as unemportant or the problems of ployment; and an inquiry into the activities of the courts during labor disputes.

labor disputes.

Testimony bearing on these subjects and containing constructive suggestions for improving conditions has been given at public hearings in the principal cities and industrial centers. W. O. Thompson, of Chicago, is counsel for the Commission. In its investigation of trades unionism, the Commission has had the active assistance of Professor George E. Barnett of Johns Hopkins University, Professor of Statistics.

The investigation of unemployment, seasonal labor, irregularity of employment and other problems affecting the distribution of labor is largely in the hands of Dr. W. M. Leiserson, state superintendent of free employment agencies in Wisconsin.

Basil M. Manly has had charge of the force of investigators who preceded the Commission to a city where a public hearing was to be held, and prepared the presentation of evidence.

Information brought out at the public hearings has been added to by the Commission's experts through intensive investigations.

vestigations.

In January, 1915, the Commission began hearings in New York, at which the Rockefeller Foundation and Andrew Carnegie's philanthropy were discussed, the Henry Ford profitsharing plan was investigated, report on Roosevelt strike was read, the story told of the "massacre of Ludlow," the great mine strike in Colorado was sifted, the control of railroads by banking houses was arrived and the subject of trade unions debated. houses was argued, and the subject of trade unions debated. The hearings aroused great interest, and our greatest educators, and the rearrings aroused great interest, and our greatest educators, manufacturers and financiers took part in them. The inquiry ended in March. During April, May and June of 1915 the Commission visited Washington (holding hearings on the Colorado Coal Mine Strike, Labor and the Law, and Pennsylvania Railroad Industrial Conditions), and Chicago, the subjects discussed there being Railroad Employees—principally sleeping car porters and conductors, Stock Yard Conditions and Commercial Telegraphers.

THE POPE

Following the death of the Pope, Pius X., on August 20, 1914, a conclave of cardinals assembled at the Vatican for the election of a successor. The choice fell on Cardinal della Chiesa, who has taken the title of Benedict XV. Of the previous Popes, no fewer than 104 were Romans, 103 natives of other parts of Italy, 44 were Frenchmen, 9 Greeks, 7 Germans, 5 Asiatics, 3 Africans, 3 Spaniards, and 2 Dalmatians; while Palestine, Thrace, Holland, Portugal, and England have each contributed one to the Papal chair. Nine Popes reigned less than one month, thirty less than one year, eleven more than twenty years, and six over twenty-three years. Pius IX., whose death occurred in 1878, terminated a reign of thirty-one years, and it is not a little remarkable that the third in length of reign should have been his successor; Leo XIII., who occupied the Papal throne for over 25 years. Papal throne for over 25 years.

UNITED STATES CIVIL SERVICE

The "Civil Service Act" was approved January 16, 1883 The "Civil Service Act." was approved January 10, 1883. It provides for rules to be promulgated by the President and gives the power to the President to appoint three persons, not more than two of whom shall be adherents of the same political party, as a commission, with authority to prescribe regulations for the execution of the provisions of the Civil Service act and rules.

GENERAL RULES.—The present rules were approved March 20, 1903, and went into effect April 15, 1903. In a general way they require that there must be open competitive examinations of applicants for positions in the public service; that appointments shall be made from those graded highest in the examinations; that appointments to the service in Washington shall be apportioned among the states and territories according to population; that there shall be a period (usually six months) of prolation; that there shall be a period (usually six months) of probation before any absolute appointment is made; that no person in the public service is for that reason obliged to contribute to any political fund or is subject to dismissal for refusing to so contribute; that no person in the public service has any right to use his official authority or influence to coerce the political action of any person. Applicants for positions shall not be questioned as to their political or religious beliefs and no discrimination shall be exercised against or in favor of any applicant or employee on account of his religion or politics. The classified civil service shall include all officers and employees in the executive civil service of the United States except mere manual laborers and persons whose appointments are subject to confirmation by the Senate.

Examinations.—These are conducted by boards of examination

Examinations.—These are conducted by boards of examiners chosen from among persons in government employ and are held chosen from among persons in government employ and are held in all the states and territories. They can always be learned of by applying to the commission or to the nearest postoffice or custom house. Applicants are advised to write to the commission in Washington for the "Manual of Examinations," which is sent free. It is revised semi-annually to Jan. 1 and July 1, containing the spring and fall schedules of examinations. Full information is given as to the methods and rules governing examinations, certification for and chances of appointment, and as far as possible it outlines the scope of the different subjects of general and technical examinations. These are practical in character and are designed to test the relative capacity and fit-

aminations, certification for and chances of appointment, and as far as possible it outlines the scope of the different subjects of general and technical examinations. These are practical in character and are designed to test the relative capacity and fitness to discharge the duties to be performed. It is necessary to obtain an average percentage of 70 to be eligible for appointment, except that applicants entitled to preference because of honorable discharge from the military or naval service for disability resulting from wounds or sickness incurred in the line of duty need obtain but 65 per cent (Sec. 1754, R. S.). The period of eligibility is one year.

QUALIFICATIONS.—No person will be examined who is not a citizen of the United States; who is not within the age limitations prescribed; who is physically disqualified for the service which he seeks; who has been guilty of criminal, infamous, dishonest, or disgraceful conduct; who has within one year been dismissed from the public service for delinquency or misconduct; who has within one year failed to receive absolute appointment after probation to the position for which he again applies for examination; who is addicted to the habitual use of intoxicating liquors to excess; who has made a false statement in his application, or who has been dishonorably discharged from the Army, the Navy, or the Marine Corps. The age limitations for certain of the common positions are as follows: Clerks and city carriers in postofices, 18 to 45 years; rural carriers, 18 to 55 years; railway mail clerks, 18 to 35 years; clerks, bookkeepers, stenographers, and typewriters, 18 years or over; mechanical trades, 20 years or over. These age limitations are subject to change by the Commission with the approval of the departments interested. They do not apply to applicants entitled to preference under Sec. 1754, R. S. Applicants for many examinations must meet rigid physical requirements.

METROD OF APPOINTMENT.—When a vacancy exists the appointing officer makes requisition upon the c

commission thereupon takes from the proper register of eligibles the names of three persons standing highest of the sex called for and certifies them to the appointing officer, who is required to make the selection. He may choose any one of the three names, returning the other two to the register to await further certification. The time of examination is not considered, as the highest in average percentage on the register must be certified first.

REMOVALS.—No person can be removed from a competitive position except for such cause as will promote the efficiency of the public service and for reasons given in writing. No examina-tion of witnesses nor any trial shall be required except in the discretion of the officer making the removal. SALARIES.—Entrance to the departmental service is usually

in the lowest grades, the higher grades being generally filled by promotion. The usual entrance grade is about \$900, but the applicant may be appointed at \$840, \$720 or even \$600.

STATISTICS OF FEDERAL CIVIL SERVICE

The extent of the federal civil service may be judged from the fact that there are over 454,116 workers. Of the various positions more than 292,000 are competitive, more than 123,000 non-competitive, over 27,000 are unclassified, and more than 10,000 filled by presidential appointees.

FEDERAL IMPEACHMENTS

Since the adoption of the Constitution there have been only since the adoption of the Constitution there have been only inte times in the century and a quarter that impeachment proceedings have been instituted against a civil officer of the national government. Only three of these resulted in convictions, all of which were judges of the Federal District Court. The nine impeachments of Federal officials, which have been considered by the United States Senate, are as follows:

William Blount, United States Senator, 1797-98, no trial, lack of inviduction.

lack of jurisdiction.

John Pickering, United States District Judge, 1803–04, found

guilty, and removed from office.

Samuel Chase, Associate Justice of the United States Supreme Court, 1804-05, tried and acquitted.

James Peck, United States District Judge, 1829-30, tried and

James Feck, United States District Judge, 182-30, the data acquitted.

West H. Humphreys, United States District Judge, 1862, tried, found guilty, and removed from office.

Andrew Johnson, President, 1868, tried and acquitted.

W. W. Belknap, Secretary of War, 1876, tried, failed of conviction on ground of lack of jurisdiction.

Charles Swayne, United States District Judge, 1905, tried and acquitted.

Robert W. Archbald, circuit judge designated to serve on the Court of Commerce, 1912, convicted.

BLINDNESS IN OLD AGE

Although blindness may occur at any time of life, it is peculiarly a defect incident to old age. In fact 49.4 per cent of the blind reported in 1910 were sixty years of age and over, whereas only about 6.8 per cent. of the total population were sixty years of age and over. In other words the median age of the total population in 1910 was 24.2 years—that is, one-half the population were under that age and the other half had passed it—while the median age of the blind population was 59.6 years, or nearly two and one-half times as great. Among children under five years only 5 in every 100,000 were blind; among persons, eighty-five years of age and over, 2,575 in 100,000 were blind. Comparisons with earlier censuses indicate that there has been a decrease in the prevalence of blindness among the younger population.

population.

It is estimated that the total number of blind persons in the world is 2,390,000. The total number enumerated at the most recent censuses of the blind in all countries in which they have been taken is 1,194,346. These countries represent nearly all of Australia, nearly all of Europe and North America, and portions of South America, Africa, and Asia, together with certain of the insular possessions of European and American countries. Countries in which the ratios of the blind to total population are lower than that of the United States (62.3 per 100,000) are: Canada, 44.9 in 1911; Belgium, 43.5 in 1910; Germany, 60.9 in 1900; Denmark, 52.7 in 1911; Netherlands, 46.3 in 1909; New South Wales, 61.4 in 1911; Western Australia, 50.3 in 1911, and New Zealand, 47.8 in 1911.

IMPORTANT DATES IN AMERICAN HISTORY

1492. Oct. 12, Columbus discovers America. July 9, Braddock's defeat.
Sept. 8, Battle of Lake George.
Fort William Henry taken by the French.
Niagara, Ticonderoga and Crown Point taken by the
English in July.
Sept. 13, Battle on the Plains of Abraham; Wolf and
Montcalm slain. 1755. 1497. Newfoundland and Labrador discovered by the Cabots.

Aug. 1, Columbus discovers the South American continent. 1498. 1757. continent.
South America visited by Americus Vespucius.
The Amazon at its mouth discovered by Pinçon.
March 27, Florida discovered by Juan Ponce de Leon.
Sept. 26, Pacific Ocean discovered by Balboa.
March 13, Cortez lands at Tabasco in Mexico.
Magellan discovers Patagonia.
De Ayllon discovers Carolina.
Premudae discovered by Juan Bermudez. 1759. 1513. Sept. 18, Quebec surrenders to the English.

1773. Dec. 16, destruction of 342 chests of tea in Boston Harbor.

1775. Several ships of the line and ten thousand troops ordered 1519. 1520. Magellan discovers Patagonia.

De Ayllon discovers Carolina.

Bermudas discovered by Juan Bermudez.
Cartier entered and named the Gulf of St. Lawrence.
California discoversed by Cortez.

De Soto heads an expedition to conquer Florida.
De Soto discovers the Mississippi.
Slaves first imported into the West Indies by the English.
St. Augustine founded by the Spaniards.
Sir Walter Raleigh dispatches two vessels to Virginia.
Discovery of Davis's Strait.
May 15, Cape Cod discovered and named by Bartholomew Gosnold.
July 3, Quebec founded by Champlain.
Hudson River discovered by Henry Hudson.
Lake Champlain discovered by Champlain.
New York settled by the Dutch on Manhattan Island (now New York) and at Fort Orange (Albany).
Tobacco first cultivated in Virginia.
Slaves first introduced into Virginia by the Dutch.
Nov. 10, the Mayflower anchors in Cape Cod harbor; first white child born in New England.
Dec. 11, landing of the Puritans at Plymouth.
Maine and New Hampshire settled by the English. New Jersey settled by the Swedes and Dutch.
Salem, Mass., founded by John Endicott.
Charleston founded by the Massachusetts Bay Colony.
Delaware settled by the Swedes and Finns.
Maryland founded by Lord Baltimore.
Hartford settled. Providence, R. I., founded by Roger 1781.
Williams.
Harvard College founded. to America.
April 19, Battle of Lexington. 1522. 1534. 1537. Congress votes to raise an army of twenty thousand men. June 15, George Washington appointed commander-in-chief of the American Army. 1539. July 12, Washington takes command of the army at Cambridge. 1565. 1584. 1586. Cambridge.

March 17, the British evacuate Boston.

April, Washington removed his army to New York.

June 28, repulse of the British at Charleston.

July 4, Declaration of Independence.

Aug. 27, Battle of Long Island; the British victorious.

Washington abandoned New York City; the British take possession Sept. 15.

Oct. 28, Battle of White Plains.

Dec. 26, Battle of Trenton. 1608. 1609. 1614. 1616. 1619. 1620. Lafayette arrives from France with troops and supplies. Congress gives him a major-general's commission, Congress gives him a major-generar's commission, July 31.

Aug. 16, Battle of Bennington.

Sept. 11, Battle of Brandywine.

Oct. 17, surrender of the British army under Burgoyne.

June 18, the British evacuate Philadelphia. 1626. July 11, arrival of a French fleet under Count d'Estaing. May 12, surrender of General Lincoln and American army at Charleston. Sept. 23, treason of Gen. Arnold, and arrest of Major 1628. 1634. Andre.

Bank of North America established.

Oct. 19, surrender of Cornwallis and 7,000 troops at 1636. Harvard College founded.

New Haven founded by Eaton and Davenport.

First printing press set up at Cambridge, Mass., by

Stephen Day.

First execution for witchcraft.

Harvard College chartered. Constitution of Maryland Yorktown.

April 17, Holland acknowledges our independence.

Nov. 30, preliminaries of peace between the United States and Great Britain signed at Paris.

Independence of United States acknowledged by Sweden, Feb. 5; by Denmark, Feb. 25; by Spain, March 24; and by Russia, in July.

April 11, peace proclaimed by Congress.

April 19, announced to the army by Washington.

Nov. 25, New York evacuated by the British. Shay's insurrection in Massachusetts.

George Washington elected president. Inaugurated April 30th.

Washington re-elected president.

Insurrection in Pennsylvania.

Dec. 14, death of Washington.

Seat of government moved to city of Washington.

Alexander Hamilton killed by Aaron Burr in a duel.

Trial of Aaron Burr for treason. Yorktown 1638. 1782. 1639. 1648. settled.
Carolina granted to Lord Clarendon by Charles II.
Aug. 29, New Amsterdam surrendered to the English
and became New York.
June 12, New York City incorporated.
Charleston, S. C., founded. First copyright granted by
Massachusetts. 1664. 1786. 1789. Charleston, S. C., founded. First copyright granted by Massachusetts.

June 24, commencement of King Philip's war.
Grant of Pennsylvania to William Penn.
Yale College founded at Saybrook. Commencement of of Queen Anne's war.
Culture of silk introduced into Carolina.
Duty of £4 laid on imported negroes in Massachusetts.
First newspaper (Boston News Letter) published at Boston by Bartholomew Green.
First Colonial post office at New York.
Free schools founded at Charlestown, Mass.
First schooner built at Cape Ann.
New Orleans founded by the French.
Inoculation for small-pox introduced into New England.
First newspaper in New York (New York Gazette) published by William Bradford.
North and South Carolina separated.
Tobacco made a legal tender in Maryland at 1d per pound, and corn at 20d per bushel.
Georgia settled by Oglethorpe.
College founded at Princeton, N. J.
Faneuil Hall erected at Boston by Peter Faneuil.
King George's War begun.
First theatrical performance in Boston.
Columbia College in New York founded.
Beginning of the old French war. 1675. 1681. 1800. 1804. Trial of Aaron Burr for treason. 1807. Trial of Aaron Burr for treason.

Jan. 1, the slave trade abolished.

Nov. 7, Battle of Tippecance.

June 18, war declared against Great Britain.

May 27, Battle of Fort George.

Sept. 10, Commodore Perry's victory on Lake Erie.

Aug. 25, the British occupy the city of Washington and burn the capitol.

Sept. 11, Macdonough's victory on Lake Champlain.

Jan. 8, Battle of New Orleans.

March, war declared with Algiers.

First steamship sailed for Europe.

Gas first used for lighting streets in the United States at Baltimore.

Oct. 26. Eric Canal completed. 1704. 1808. 1712. 1714. 1717. 1721. 1725. 1814. 1815. 1729. 1732. 1733. 1738. 1742. 1743. 1750. 1754. oct. 26, Eric Canal completed.
Dec. 16, great fire in New York.
Seminole war in Florida begun.
April 4, death of General Harrison, John Tyler succeeds as president.

1846. May 13, proclamation of war existing with Mexico.

1846. Oct. 25, Tobasco in Mexico bombarded by Commodore Perry

Sept. 14, the American army enters the City of Mexico. 1848. Feb. 23, John Quincy Adams expires in the capitol at Washington

1849.

Washington.
May 15, the cholera breaks out in New York.
July 9, death of President Taylor at Washington.
July 10, Millard Fillmore takes the oath of office as 1850. president. Sept. 18, fugitive slave bill passed

1852.

Sept. 18, fugitive slave bill passed.
June 29, Henry Clay dies at Washington.
Oct. 24, Daniel Webster dies at Marshfield.
July 14, crystal palace at New York opened.
Aug. 5, news of the successful laying of the Atlantic
telegraph cable is received throughout the country
with great demonstrations of joy. The cable was
placed in mid-ocean July 29; the Agamemnon reached
Valencia, Aug. 4, and the Niagara Trinity Bay, Aug. 5
Cct. 6, 10th Brown's seizure of Harner's Ferry: he is 1858.

1859. Oct. 6, John Brown's seizure of Harper's Ferry; he is captured and hung Dec. 2.

1860. May 18, Lincoln nominated by Republican convention at Chicago.

Feb. 4, Seceders' convention at Montgomery, Ala.; call themselves "Confederate States of America," and 1861.

themselves "Confederate States of America," and adopt a constitution.

Feb. 14, Jeff. Davis made president of the confederates; they raise troops and arm for war.

April 14, Fort Sumter surrenders after two days' bombardment by the confederates.

Feb. 16, Gen. Grant takes Fort Donelson with over 13,000 prisoners, after four days of tremendous fielding.

1862. fighting Feb. 22, Jeff. Davis inaugurated rebel president for six

years.
March 9, battle between Monitor and Merrimac.
April 6 and 7, Battle of Shiloh.
May 31, Battle of Fair Oaks, McClellan's advance defeated severely by rebels.
June 6, great naval battle in the river before Memphis.

Memphis surrendered on the same day to Commodore Davis

July 1, Battle of Malvern Hill, last of the Seven Days' Battles; rebels repulsed, and the position on the James maintained. Total union losses in seven days, 5,244

15,244.
July 1, President Lincoln calls for 600,000 volunteers.
Aug. 29 and 30, Gen. Pope defeated at Bull Run after very heavy fighting, and falls back.
Sept. 16 and 17, battle of Antietam; rebels defeated.
Sept. 22, Emancipation Proclamation announced for Jan. 1, 1863.
Dec. 11-14, Battle of Fredericksburg.
Dec. 31, Battle of Stone River.
Jan. 1, the definite Emancipation Proclamation issued.
May 1-5, Battle of Chancellorsville; indecisive, but great losses on both sides. 1863.

great losses on both sides.

July 1-3, Battle of Gettysburg; Lee defeated and retreated at once southward.

July 4, unconditional surrender of Vicksburg and 31,000

July 4, unconditional surrender of Vicksburg and 31,000 men to Gen. Grant.

July 13-18, fast riots in New York city, several negroes tortured and hung by mob, and much burning and robbing; 1,300 rioters killed, and riots put down.

Sept. 19-20, Battle of Chickamauga.

Oct. 17, President Lincoln calls for 300,000 more men.

March 17, Gen. Grant assumes command of all the armies of the U. S.

May 5-6, the tremendous battle of the Wilderness; resulting in Lee's retiring.

May 8-18, Battle of Spottsylvania.

June 1-4, Battle of Cold Harbor.

June 7, Mr. Lincoln renominated at Baltimore.

July 16, gold about this time at its highest in New York, viz., 284 per cent.

Aug. 5, Admiral Farragut's splendid victory in forcing his way into Mobile Harbor.

Nov. 8, Lincoln re-elected. Gen. McClellan resigns his commission.

commission.

commission.

April 2, Grant attacks heavily along his whole line; Lee decisively defeated, Petersburg and Richmond evacuated at night and Davis flees.

April 9, Lee surrenders with his army of 26,115 men.

April 14, Booth assassinates President Lincoln, and

his confederate Payne tries to kill Mr. Seward Mr. Lincoln dies at 7:22 next morning.

Dec. 18, the Secretary of State, Mr. Seward, officially declared slavery abolished throughout the United States, 27 States having ratified the Constitutional Amendment: 1865.

July 4, extensive conflagration in Portland, Me., one-third of the city burnt and property amounting to \$10,000,000.

July 27, laying of the Atlantic cable successfully completed.

June 20, Alaska purchased from Russia for \$7,200,000. Completion of first transcontinental railway.

1867. 1869. Oct. 8, the great Chicago fire in which more than 250 persons lost their lives, and destroyed property to the amount of \$196,000,000. 1871. Centennial anniversary of American Independence at

1876. Philadelphia.

1881.

1887. 1889.

1890.

1893. 1894.

1895.

1898.

Centennial anniversary of American Independence at Philadelphia.

July 2, President Garfield shot by Charles J. Guiteau at Washington.

Sept. 19, President Garfield died at Long Branch.

Jan. 18, presidential succession established.

Feb., Interstate Commerce Act passed.

May 31, Johnstown flood.

July 4, Idaho and Wyoming admitted as states.

World's Fair at Chicago.

July 4, Hawaii made a republic.

Feb. 24, Cuban revolt began.

Jan. 11, Anglo-American Arbitration Treaty signed.

Nov. 8, Bering Sea Seal Treaty signed.

Feb. 15, battleship Maine blown up in Havana Harbor.

April 25, war declared against Spain.

May 1, Dewey's victory at Manila.

July 3, Naval battle of Santiago de Cuba.

July 7, Hawaii annexed by United States.

July 17, Santiago de Cuba surrendered.

Aug. 12, Peace protocol signed.

Dec. 10, Philippines and Porto Rico ceded to the United States.

Dec. 12, Paris Peace Treaty signed.

1899.

United States,
Dec. 12, Paris Peace Treaty signed.
Jan. 1, Cuba under sovereignty of United States.
Feb. 4, Philippine-American war begun.
April 11, Philippines, Porto Rico and Guam formally acquired by the United States.
Sept. 8, Galveston tornado.
Feb. 21, Cuban Constitution signed.
Sept. 0, Assassination of President McKinley.
April 30, Philippine-American war ended.
May 20, Cuban republic inaugurated.
Dec. 14, laying of Pacific cable begun at San Francisco.
March 19, Cuban-United States Reciprocity Treaty ratified.

1900.

1902.

1903.

 March 19, Cuban-United States Reciprocity Treaty ratified.
 Oct. 17, Alaska boundary award made.
 Feb. 26, Panama Canal Zone formally acquired by the United States.
 April 18-20, San Francisco earthquake and fire. Sept. 29, President Palma of Cuba and cabinet resigned and American control established.
 Nov. 16, Oklahoma and Indian territory admitted to Union as State of Oklahoma.

 Dec. 16, 1907 to Feb. 22, 1909, American battleship cruise around the world.
 Oct. 1, postage between United States and Great Britain reduced to two cents.

 Jan. 28, American control of Cuba relinquished. April 6, North Pole discovered by Commander Robert E. Peary.
 June 1, fisheries (Atlantic) dispute settled by Hague.
 Jan. 3, Postal banks established in United States.
 Dec. 23, Congress passed the Federal Reserve Act.
 Dec. 23, Congress passed the Federal Reserve Act.
 April 22, Vera Cruz taken by U. S. Navy. Aug. 15, Official opening of Panama Canal. Nov. 23, Withdrawal of U. S. Troops from Vera Cruz.
 Feb. 20, Opening of Panama-Pacific Exposition at San Francisco.
 Treaty signed with Haitian Government for ratified.

Feb. 28, Treaty signed with Haitian Government for U. S. to assume protectorate over them. June 19, President Wilson called out State Militia for Mexican border duty.

Sept. 7. Senate ratified treaty to purchase Danish West Indies.

EXPLORATIONS AND DISCOVERIES

Year E	Explorer and Nationality	y Discovery or Exploration	Very F	Explorer and Nationality	Discours on Employet's
B.C.					
		Atlantic coast of Europe. May have extended to Sargasso Sea. Writes the first recovery	1498	Sebastian Cabot (English)	Explores American coast from Gulf of St. Lawrence to Chesapeake Bay.
500 470		Leads a colonizing expedition to West Africa as far as Cape Palmas	1498	Columbus (Genoan)	to Chesapeake Bay. July 31, Trinidad Islands discovered; August 1, en- ters mouth of Orinoco River.
330	Pytheas (Massilia)	Coast of Spain, Gaul, and Great Britain.	1499	Ojeda (Italian)	Discovers Gulf of Venezuela
332-326	Alexander the Great (Macedonia)	Occupies Egypt and founds Alexandria 332; invades	1500	Vincente Pinzen (Spanish)	and New Granada. Discovers mouth of the Amazon.
325 218		India 326. Sails from the Indus to the Euphrates.	1500	G. Cortereal (Port.)	Reaches entrance of Hudson Strait, called by him Strait of Aniam; explores
about 120	Hannibal (Roman) Eudoxus of Cnidus (Greek)	Attempts circumnavigation	1501	Pedro Alvarez Cabral	Labrador. Explores coast of Brazil, which he names Santa
61-48		Leads expeditions into Gaul, Germany, and Britain.	1502	Amerigo Vespucci	Cmiz. Discovers Bay of Rio de
15	Tiberius (Roman)	Discovers the Lake of Con- stance.	1502	(Genoan)	Janeiro. Visits Central America on
A.D. 84	Agricola (Roman)	Britain -	1513		his fourth voyage; discovers Martinique. Discovers Florida and sails
150	Claudius Ptolemy				up the west coast of the Peninsula.
		stars revolve around the earth; calculates circumference of the globe.	1513	Balboa (Spanish)	Crosses Isthmus of Panama and discovers the Pacific Ocean.
861		faroe Islands. North Cape of Europe rounded.	1516	Juan Solis (Span.)	Enters and explores the Rio de la Plata.
865 876	Naddod (Norse) Gunnbjörn (Norse)	Discovers Iceland. Sights Greenland coast.	1518		Discovers east coast of Mex-
982	Eric the Red (Norse)	Discovers and names Green- land.	1519-1521 1519-1521	Cortez (Spanish) Magellan (Spanish)	Conquest of Mexico. First to circumnavigate the
1000	Leif Ericson (Norse).	(Helluland), and coast of New England (Vinland).			globe. Passes through Strait of Magellan; crosses the Pacific and discovers the Philippines.
1154		world, very important in	1523		Discovers the lakes of Nica-
bout1200	Arabs	Trading merchants discover Siberia.	1524	Giovanni Verrazano (Italian)	Explores coast of N. Caro- lina, Maryland, New Jer-
1253	Ruysbroek	Reaches Karakorum, the ancient seat of the Mongol Empire.	1524-1535	Jacques Cartier (French)	Explores coast of N. Caro- lina, Maryland, New Jer- sey and New York. Explores Gulf of St. Law- rence; ascends river to
271-1295	Marco Polo (Venet.).	Travels in Central Asia, India, Persia. First to travel in China.	1534		Montreal. Completes the conquest of Peru.
325-1352	Ibn Batuta (Arabian)	Travels through N. Africa, E. Africa, S. Russia, Ara-	1539	Francesco de Ulloa	Explores Gulf of California, and proves that Lower
1336	Sir John Mandeville	bia, India and China. Travels in India.	1541	Francisco de Orellana (Spanish)	California is a peninsula. Explores part of the Amazon River.
1474	Toscanelli (Italian)	Sends Columbus his map showing the western route to China.	1541	De Soto (French)	Discovers the Mississippi River.
1485	Diego Cam (Port.)	to China. Mouth of the Kongo reached.	1542 1576	Antonio de Mota Frobisher (English)	Explores Labrador and Bai-
1487	Bartholomew Dias	Rounds Cape of Good Hope	1577-1580		fin Bay; discovers Fro- bisher Bay. Second circumnavigation of
492-1494	Columbus (Genoan)	to a point beyond Algoa Bay. Oct. 12, discovers the West Indies; Nov. 3. 1493, on second voyage discovers Dominica, Porto Rico and several of the Windward group of islands: May 3.	1077 1000	(English)	the globe; explores west
		Dominica, Porto Rico and several of the Windward group of islands: May 3.	1585	John Davis (Eng.)	as far as Oregon. Discovers Davis Strait in looking for Northwest Passage.
		group of islands; May 3, 1494, Jamaica is discovered.	1592 1595		Passage. Discovers the Falkland Is. Explores Guinea and ascends
		Discovers Venezuela and the continent of So. America.	1596	(English) William Barents	the Orinoco 400 miles. Spitsbergen, Nova Sembla, Barents Sea.
1497	John Cabot (Anglo- Venetian)	Sails along the N. E. coast of America, discovering	1598	Mendaña de Nevra	Discovers Marquesas Islands
4400	Wassa da Como (Port)	of America, discovering Cape Breton Islands and Nova Scotia.	1606	(Spanish)	Discovers the New Hebrides. Discovers Torres Strait.
1498	vasco da Gama (Port.)	Route to India by Cape of Good Hope	1606 1608	Champlain (French)	Discovers Lake Ontario.

Year E	xplorer and Nationality	Discovery or Exploration	Year E	xplorer and Nationality	Discovery or Exploration
1608	John Smith (Eng.)	Explores Chesapeake Bay and its tributaries.	1830-1832	Biscoe (English)	Enderby Land and Graham Land.
1609-1610	Henry Hudson (Eng.)	Explores Hudson River and	1831	Sir J. Ross (Eng.)	Magnetic North Pole plotted.
1610	Sir Thomas Smythe	Hudson Bay. Discovers Delaware Bay.	1832	Laird and Oldfield (Scot.)	Exploration of the Niger and Benué.
1614-1617	(English) Spillbergen (Dutch)	Circumnavigation of the	1833-1835	Sir Geo. Back (Eng.)	Great Fish River or Back River in the Arctic.
1616	Wm. Baffin (Eng.)	globe. Enters Baffin Bay on quest	1835	Sir F. Schomburgk (German)	Explorations in British Guiana.
1 616	Willem Schouten and	of Northwest Passage. First to double Cape Horn.	1837-1840	D'Urville (French)	Adélie Land. Reaches 66° 30' S. lat.
1 616	Jacob Le Maire Dirk Hartog (Dutch)	Surveys port of west coast of Australia and visits	1839		Balleny Islands, 66° 44′ S.
1631	Fox	Shark Bay.	1839-1841	Edward John Eyre (English)	Explores Australia and discovers Lake Torrens. In
1642	Abel Tasman (Dutch)	Van Dieman's Land (Tas-			1841 journeys from Ade- laide to King George's Sound.
1644	Abel Tasman (Dutch)	mania) and New Zealand. Discovers Gulf of Carpen-	1840 1841	Trummer	Remains of ancient Nineveh. Victoria Land, with volca-
1660	French	taria. The St. Lawrence Lake re-	1844-1845	(English)	noes Erebus and Terror. Crosses Australia, from
1673	Marquette and Joliet	gion discovered. Exploration of Mississippi		,	Moreton Bay to South Africa.
1679	French	from the north. Exploration of the Great	1846	Sir John Franklin	Penetrates to within twelve miles of the northern ex-
1681	La Salle (French)	Lakes and the Mississippi. Explores lower Mississippi and takes possession for			tremity of King William's Land.
1701		Louis XIV. Makes explorations in Cali-	1849-1873	David Livingstone (Scot.)	Discovers Lake Ngami 1849; explores Zambesi and
1728	Bering (Dane)	fornia. Discovers Bering Strait			Kuanza basins to Loanda 1851-1854; discovers Vic-
		and proves that Asia and America are not connected.			toria Falls 1855; discovers Lakes Shirwa and Nyassa
1725-1743	Russians	Explore the coast of Siberia.			1858-1859; explores many smaller bodies of water tracing their sources, also
1742	Bering (Dane)	Explores northwest coast of America to lat. 69° N.			the cannibal country 1860-1873.
1768-1775		Hydrographical surveys of the Society Islands, Sand-	1850-1855	Richardson & Barth (English)	From Tripoli explores plateau of Hammada.
		wich Islands, east coast of Australia, Cook Strait in	1850	Sir R. M'Clure(Irish)	Discovers North-West Pas- sage.
1770-1773	James Bruce (Scot.) .	New Zealand, etc. Reaches source of the Blue	1852-1854	Sir C. R. Markham (English)	Explorations in Peru.
		Nile; explores Syria and Abyssinia.	1856-1859	Du Chaillu (French)	Botanic and zoologic explorations of basin of Ogowé
		Discovers new Siberian Islands.	1858	Sir Richard Burton	ations of basin of Ogowé River, W. Africa. Lake Tanganyika.
1773		Antarctic Ocean to lat. 71° 15′ S.	1858	(English)	Victoria Nyanza.
1785–1788 1789–1793	Alex. Mackenzie	North of Japan; discovers Strait of Perouse. Exploration of Mackenzie	1861	(English)	
1109-1193	(Scot.)	River: first to make over-		(English)	Explores Upper Nile; discovers Albert Nyanza in 1864.
1792	George Vancouver (English)	land trip to Pacific Coast. Vancouver Island circum- navigated; exploration of	1862	M'Donall Stuart (Scot.)	Crosses Australia from south to north.
1705–1706		Gulf of Georgia. Explorations in the Niger	1865-1866	G. Rohlfs (German)	Journey from Tripoli to Lagos, exploring many lakes
2170 2170	Arango I ara (comp.)	districts as far as Bam- maku.	1867-1872	Ferd. Richthofen	and oases. Extensive travel and explor-
1801-1804	Matthew Flinders	Southern coasts of Australia.		(German)	ation in China, Japan and
1803-1806	(English)	Surveys in Sea of Japan and Sea of Okhotsk; circum- navigates the world.	1868-1871	George Schweinfurth (German)	Exploration of the Jur, Niam-Niam, and Mon- buttu countries, discover-
1819 1823	SirWm.E.Parry(Eng.) Wrangel (Russian)	Parry Archipelago. Discovers Wrangel Land, and explores Arctic re-	1869-1874	Gustav Nachtigal (German)	Explorations in Lake Chad region and Central Sudan
1823	Denham and Clan-	Explore south end of Lake	1871	Charles Hall (U. S.).	States. Sails from New London in
1825-1826	perton (English) A. G. Laing (Scot.)	Chad. Reaches Timbuktu from			Sails from New London in the Polaris in search of North Pole. Passes
1827-1828		Tripoli. Journey from Kakandy to Timbuktu and Morocco.			through Kennedy and Robeson Channels and reaches lat 82° 11' N.the
1830	Chas. Sturt (Eng.)	Discovers the Murray River and Lake Alexandrina,	1872	Payer and Weyprecht	farther north. Discover Franz Tosef Land
		Australia.		(Austrian)	, and a residence of the second

				OVERCIES	
Year	Explorer and Nationality	Discovery or Exploration	Year I	Explorer and Nationality	Discovery or Exploration
187	3 Warburton (English)	Crosses Western Australia from East to West. Explorations in the Ogowé			possession of many prov- inces in the name of
187 187	6 H. M. Stanley (Welsh)	Discovers Albert Edward	1908	Dr. Sven Hedin. (Swed.)	Canada. Explores western Tibet from north to south, establishing the fact that it is transversed with parallel ranges extending east and
187	6 Sir Geo. Nares & A.	Kongo. Grant Land. Penetrated as far N. as 83° 20' lat. North-East Passage.			west; discovery and ex- ploration of main branch- es of Indus
1878-187 1878-188	5 Major Serpa Pinto	far N. as 83° 20' lat. North-East Passage. Twice crosses Africa.	1908 1909	Dutch	Explore part of Dutch New Guinea. North Pole reached by
1878-189	(Port.)	Travels and surveys in Equa- torial Africa. Discovery	1909	(U.S.)	Peary, Henson and four Eskimos on April 6. Reaches lat. 88° 23' S.:
187	9 Moustier and Zweifel	of Semliki River, &c.		leton (Eng.)	gonigos o nortes subjola
188	(Swiss) 1 George W. DeLong (U. S.)	Sources of the Niger. Sails from San Francisco July 8, 1879, drifts north- west until he reaches lat. 77° 15'. Grinnell Land and NE. coast	1909-1910	Dr. Wilhelm Sievers.	determines the location of the South Magnetic Pole. Discovers that the ultimate source of the Marañon Amazon is to be found on
1881-188	4 A. W. Greely (<i>U. S.</i>).	Grinnell Land and NE. coast of Greenland. Expedition reaches 83° 24½' N. 1882. Across Africa from West coast, Kongo Basin.	1910	French	the snow mountain San Lorenzo. Investigation of the south-
188	5 Wissmann (German)	Across Africa from West coast, Kongo Basin.			western part of the Sahara. Crosses Africa from Niger to
1880-188 188					Nile determining the water parting between the Nile Kongo and the Shari
188	(U.S.)	Nyam-Nyam country. Makes his first journey to North Greenland. Travels from Pekin to Kash-	1911	Mai P H Fawcett	River. Follows Heath River (Boli-
189	(English)	mir. Traverses the inland ice of Greenland and proves		(<i>Eng.</i>)	via) for 300 miles on toot
	(0.8.)	the convergence of the eastern and western coasts of the north part.	1911	Captain Strümpel	topography. Surveys last unknown stretch of the Benué River, largest tributary of the Niger. Discovers the South Pole on
189	7 Jackson (Scot.)	Surveys and explorations in Franz Josef Land.	1911	Captain Raold Amund-	Discovers the South Pole on
1896-189	7 Sven Hedin (Swed.)	Explorations in North Central Asia and Tibet.	1912	sen (Norse) Robert F. Scott (Eng.)	Dec. 14. Reaches the South Pole on January 18.
1893–189		Reaches with sledges lat. 86° 14′ N.—the farthest	1912		Reports the discovery of a race of "blond Eskimos, in the Coronation Gulf region
1894-189	(Scot.)	Explores region of Lake Ru-	1012	Herschel C. Parker	of Victoria Land.
1896–189 189		Travels from Upper Mo- bangi to Fashoda. Attempt to cross over the North Pole in a balloon,	1714	(U.S.)	Scales Mount McKinley to within 300 feet of top. Makes complete series of maps of surrounding
189		with fatal results.	1913	Captain I. P. Koch	Traverses the inland ice of
1 898–189	9 De Gerlache (Belg'n)	Crosses Western Australia from South to North. "Belgica" first ship to winter within Antarctic circle.		(Danish)	Greenland from Cape Bismarck, to the west coast, near Upernavik, which he reached on July 12, 1913.
189	9 Major Gibbons	Explorations in Kongo and Zambezi headwaters. Reaches lat. 78° 50′ S. via	1913	Hudson Stuck	Reaches the top of Mount McKinley on June 21.
1900		Victoria Land.	1913	Captain Vilkitski (Russian)	Reports the discovery in the Arctic Ocean of Siberia of
1900	Duke of Abruzzi (Italian) Robert E. Peary	Reaches lat 86° 33' N. via Franz Josef Land. Reaches lat. 84° 17' N. and traces the northern limit		(Arctic Ocean of Siberia of new lands to the north of Cape Chelyuskin, from which it is separated by a strait.
1902	Robert F. Scott (Eng.)	of the Greenland archi- pelago. Reaches lat. 82° 77′ S.	1914	Col. Theodore Roosevelt (U. S.)	Discovers Roosevelt River, S. A. a large tributary of the Maderia.
1900 1900	3 Anthony Fiala 5 Robert E. Peary (U. S.)	Lat. 82° 4' N. reached. Reaches lat. 87° 6' N. on April 21. Traces north coast of Grant Lend end discovers new Crocker Land at about long. 100°		(<i>U</i> . <i>S</i> .)	Leader of The "Crocker Land" Expedition reports that "Crocker Land" does not exist where Peary placed it in 1906.
1906		W. Achieves Northwest Passage on vessel Gioa.	1915	Sir Ernest H. Shackle- ton (Eng.)	Reports discovery of 200 miles of new coast line in
1907	(Norse)	Maps the northeast coast of Greenland completing the outline.			limination of South Greenland from map.
1907	Capt. Arnaud	Crosses Sahara from Algeria south to Gulf of Guinea.	1916	Vilhjalmar Stefansson	Members of his expedition report discovery of new lands north of Prince Pat-
1908	Capt. J. E. Bernier R	desearches in archipelago north of America, taking			lands north of Prince Patrick Land.

GREAT EVENTS IN THE WORLD'S HISTORY

A. D.

1664—The great plague of London.
1666—The great fire in London.
1679—Habeas Corpus Act passed in England.
1704—Gibraltar captured by the English.
1756—Beginning of the Seven Years' War in France.
Black Hole suffocation in Calcutta.
1759—Canada taken from the French by England.
1773—Steam engine perfected by James Watt.
1788—Australia first settled (Jan. 26).
1789—Beginning of the French Revolution (July 14).
1793—The cotton gin invented by Eli Whitney.
Execution of Louis XVI. of France (Jan. 21), and ot Queen Marie Antoinette (Oct. 16).
1795—Dismemberment of Poland.
1796—Vaccination discovered by Jenner.
1801—Union formed of Great Britain and Ireland.
1804—Bonaparte became Emperor of France.
1805—Battle of Trafalgar.
Battle of Austerlitz.
1807—The first steamboat voyage by Robert Fulton.
1809—Finland ceded to Russia by Sweden.
1812—War declared between Great Britain and the United States.
Invasion of Russia by Napoleon and the burning of Masseaw. B. C.

1183—Fall of Troy.

1004—First Temple at Jerusalem dedicated by Solomon.

878—Carthage founded by Dido.

776—Beginning of the Olympic era.

753—Rome founded by Romulus.

623—Birth of Gautama Siddartha, or Buddha.

588—Jerusalem captured by Nebuchadnezzar.

538—Babylon taken by Cyrus.

536—Restoration of the Jews under Cyrus.

550—Expulsion of Tarquinius from Rome.

480—Xerxes defeated the Greeks at Thermopylae.

300—The Carthaginians form settlements in Spain.

332—Alexandra. 332—Alexander the Great conquered 25,990 and Alexandria.

264—Beginning of the First Punic War (lasting 23 years).

219—Conquest of Spain by Hannibal.

218—Beginning of the Second Punic War (lasting 17 years).

206—Scipio expelled the Carthaginians from Spain.

183—Hannibal exiled and took poison when about to be surrendered to the Romans. 113-Defeat of the Romans by the Teutons and Cymry at Norlia. 55—Conquest of Britain by Cæsar. 47—Burning of the Alexandrian Library. 44—Julius Cæsar killed (March 15). 4—Birth of Jesus Christ. Invasion of Russia by Napoleon and the burning of 44—Julius Casar Killed (March 15).
4—Birth of Jesus Christ.

A. D.
29—Crucifixion of Jesus Christ.
64—Nero burned Rome and charged the Christians with the crime.

1814—Abdication of Napoleon I. (April 5).
1815—Battle of Waterloo (June 18).
54—Nero burned Rome and charged the Christians with the States.

States. 1835—Invention of the telegraph by Prof. F. B. Morse.
1837—Ascension of Queen Victoria to the throne of England.
1846—The sewing machine perfected by Elias Howe.
Repeal of the British Corn Laws.
Beginning of the war between the United States and 70-Destruction of Jerusalem by Titus. 70—Destruction of Jerusalem by Titus.
79—Pompeii destroyed.
313—Conversion of Constantine to Christianity.
325—Constantine convoked the Council of Nice.
376—Russia invaded by the Huns.
410—Abandonment of Britain by the Romans.
569—Birth of Mohammed at Mecca.
593—Printing invented by the Chinese.
698—Carthage captured and destroyed by Hassan, the Saracen chief Mexico.

1851—Gold discovered in Australia.

1852—Louis Napoleon became Emperor of France.

1853—Beginning of the Crimean War.

1853—Beginning of the Crimean War.

1857—The great mutiny in India.

1861—The Russian seris emancipated.

1861—1865—Civil War in the United States.

1864—The Geneva Convention held, adopting a code for civilized warfare.

1867—Emperor Maximilian of Mexico executed.

Establishment of the Dominion of Canada.

1870—Beginning of the Franco-German War.

1871—Re-establishment of the German Empire.

1881—Assassination of Czar Alexander II. by a bomb (March 13). Mexico. chief.

800—Charlemagne crowned Emperor of the West by the Pope (Dec. 25).

827—Egbert proclaimed first King of England.

896—The Germans under Arnold capture Rome.

996—Paris made capital of France.

1066—Norman conquest of England.

1099—Jerusalem captured by the Crusaders.

1172—Conquest of Ireland by England.

1215—Magna Charta granted by King John (June 15).

1255—First regular Parliament met in England.

1212—Wales subdued and united to England.

1314—Union of France and Navarre.

1415—France invaded and the battle of Agincourt.

1431—Joan of Arc burnt (May 30).

1453—Constantinople captured by the Turks.

1455—Beginning of the War of the Roses.

1471—First printing press set up by William Caxton. 1882—British occupation of Egypt.

1887—\$10,000,000 given by Baron Hirsch for the establishment of Jewish schools in Russia.

1899—Brazil became a republic.

1894—Chinese-Japanese War began.

1897—The Turkish-Greek War. 1894—Chinese-Japanese War began.
1897—The Turkish-Greek War.
1899—Peace conference between all civilized nations.

Beginning of the war between England and the South
African Republics.
1900—The anti-Christian riots in China and the occupation by
all foreign powers.

Assassination of King Humbert of Italy.
Transvaal annexed to Great Britain.
1901—Death of Queen Victoria and the accession of King
Edward VII. of England.
1902—Peace established in South Africa by Great Britain.
Tomas Estrada Palma inaugurated as first President of
the Cuban Republic.
1904—Russia-Japan War began.
1905—Earthquakes in India and Italy.
Russia-Japan War ended.
Norway dissolved union with Sweden.
1906—San Francisco earthquake and fire.
Morocco conference.
1907—King Oscar II. died and King Gustav V. proclaimed in
Sweden. 1455—Beginning of the War of the Roses.
1462—The Bible first printed at Mentz.
1471—First printing press set up by William Caxton.
1485—End of the War of the Roses.
1492—Discovery of America by Christopher Columbus.
1517—Beginning of the Reformation in Germany.
1519—Cortez began his conquest of Mexico.
1521—Sweden delivered from Denmark by Gustavus Vasa.
1534—Henry VIII. abolished the Pope's authority in England.
1535—The first English Bible printed.
1558—Queen Elizabeth crowned.
1558—Beginning of the Netherlands revolt.
1572—The St. Bartholomew massacre (Aug. 24) in France, in which 70,000 persons were slain.
1588—Defeat of the Spanish Armada by the English fleet.
1603—Union formed between England and Scotland (March 24).
1616—Death of Shakespeare (April 23).
1618—Beginning of the Thirty Years War in Germany.
1640—Cromwell's Long Parliament assembled.
1649—Charles I, of England beheaded (Jan. 30).
1653—Oliver Cromwell proclaimed Protector of England.

GREAT EVENTS IN THE WORLD'S HISTORY-Cont'd

1908-Bosnia and Herzegovina annexed by Austria. Bulgaria proclaims independence.

Belgian Kongo annexed by Belgium.

1909—Death of Leopold II. and the accession of Albert I. of

Belgium.

1910—Korea annexed by Japan.

Death of King Edward VII. and the accession of King George V. of England.

Union of South Africa proclaimed.

King Manuel II. deposed by Portugal and republic de-

President Diaz of Mexico forced to resign.

-China revolution began and republic proclaimed.

Italy declares war on Turkey.

1912—King Christian IX. died and King Christian X. proclaimed in Denmark.
Italian-Turkish War ended.
Balkan-Turkish War began.
1913—Balkan-Turkish War ended.
King George of Greece assassinated, succeeded by
King Constantine.
Balkan-Bulgarian War began and ended.
1914—European War began.
Great Britain proclaims Sultanate of Egypt.
Panama Canal opened to World's traffic.
1916—Rebellion suppressed in Ireland.
German merchant submarine crossed Atlantic Ocean
without convoy.

PROGRESS	OF THE	UNITED STATES,	1800-1915
1800	1850	1900	1010

	1800	1850		1900		1910	1915
Area, sq. mi	892,135	2,997,119		3,026,789		3,026,789	3,026,789
Population	5,308,483	23,191,876		75,994,575		92,174,515	. 100,264,485
Population per sq. mi	0.12	AT 425 700 000	.88	25	.55	30,99	33.71
Wealth	,	\$7,135,780,000	٠٠.	\$88,517,307,000		\$107,104,212,000 (5)\$187,739,071,090
Wealth per capita		307	.69	1,164	.79	(a) 1,318.11	(b) 1,965
Public debt, less cash in	000 076 004	62 450 770		4 407 744 057		4.045.440.400	
Treasury July 1 Public debt per capita	\$62,970,294	63,452,773	71		ro	1,046,449,185	. 1,090,148,006
Interest bearing debt	10.00		.74		.58	913,317,490	
Annual interest charge	. 82,976,294					04 077 000	
Interest per capita	3,402,601	0,702,393	16		.44		22,936,642
Gold coined	310,760	31,981,739	. 10	99,272,943	. 11	0.23. 104,723,735	
Silver coined			100			0.000.00	
Money in circulation:	221,270	. 2,000,200	/**	00,010,021		0,740,400 .	4,114,066
Gold	i	4477 0077 4774		610,806,472		590,877,993	. 590,133,619
Gold	16,000,000	147,395,456		142,050,334		000 047 048	233,913,111
Gold certificates				200,733,019		000 854 400	1,072,847,819
Silver certificates				408,465,574		478.597.238	481,970,395
U. S. notes (greenbacks)				313,971,545		334,787,870	332 342,246
National bank notes				300,115,111	***		. 785,393,047
Miscellaneous currency Total	10,500,000	131,366,526		79,008,942			. 2,244,687
Total	26,500,000	278,761,982		2,055,150,997		3,102,355,605	. 3.569,219,574
Per capita	4.99	12.	.02	26.	.93	• 34.33.	35.44
Per capita				31,904,308,304			. 90,842,707,724
				84,582,450,081		168,986,664,000 .	. 162,777,508,000
National banks				3,732		7,145 .	7,605
Capital paid in	·			621,536,461		989,567,114 5,287,216,312	1,068,519,105
Deposits in National banks.		10 101 100		2,458,092,758			
In savings banks		43,431,130	• •	2,389,719,954		4,070,486,247 .	4,997,706,013
Depositors in savings banks		251,354	• • •	6,107,083	* *	9,142,908 .	. 11,285,755
Government receipts,	10 040 740	43,592,889		567,240,852		67E E11 71E	607 040 997
Ordinary	0.000.022	39,668,686	* * *	000 4 5 4 0 8 4	• •	000 000 118	. 697,910,827 . 209,786,672
Customs	9,080,933 809,397	39,000,000	. **	295,327,927	• •	000 000 240	. 209,786,672 . 415,669,646
Internal revenue Government disbursements,				250,021,521	•••	209,900,019 .	. 415,009,040
Ordinary	10.813.071	40,948,383	·	487,713,792		659,705,391 .	. 724,763,167
War	2,560,879	9,687,025		134,774,768		155,911,706	
Navy	3,448,716	7,904,725		- 55.953.078			. 141,835,654
Interest on bublic debt	3.4UZ.DUI	7,904,725 3,782,393		40,160,333 140,877,316		21,342,979 .	. 22,902,897
Pensions	64.131	1,866,886		140,877,316			. 164,387,942
Merchandise imported	91,252,768	173,509,526		849,941,184		1,556,947,430 .	4 674 460 740
Pensions Merchandise imported Per capita Merchandise exported	17.19				02		. 1,674,169,740
Merchandise exported		1.	48	10.	93	16.54.	. 16.20
	70,971,780	144,375,726		1,394,483,082	93	1.744.984.720 .	. 16.20 . 2,768,589,340
Per capita	70,971,780 13.37	0.	23	1,394,483,082 17.	76	1,744,984,720 . 18.28 .	. 2,768,589,340 . 26.70
Farms & farm property	13.3/	144,375,726 6. 3,967,343,580	23	1,394,483,082 17. 20,439,901,164	76	1,744,984,720 18.28 40,991,449,090	. 16.20 . 2,768,589,340 . 26.70 . Not available
Farms & farm property	13.3/	3,967,343,580	23	1,394,483,082 17. 20,439,901,164 4,717,069,973	76	1,744,984,720 . 18.28 . 40,991,449,090 . 8,498,311,413 .	. 16.20 . 2,768,589,340 . 26.70 . Not available . Not available
Farms & farm property Farm products, value Farm animals, value	7 . 13.3/	3, 967,343,580 544 ,180,516	23	1,394,483,082 17. 20,439,901,164 4,717,069,973 2,228,123,134	76	1,744,984,720 . 18.28 . 40,991,449,090 . 8,498,311,413 . 5,138,486,000 .	. 16.20 . 2,768,589,340 . 26.70 . Not available . Not available
Farms & farm property Farm products, value Farm animals, value Cattle no.	. 15.5/	3,967,343,580 544,180,516 17,778,907	23	1,394,483,082 17. 20,439,901,164 4,717,069,973 2,228,123,134 43,902,414	76	1,744,984,720 18.28 . 40,991,449,090 . 8,498,311,413 . 5,138,486,000 . 69,080,000 .	16. 20 2,768,589,340 26. 70 Not available Not available 5,969,253,000 58,329,000
Farms & farm property Farm products, value Farm animals, value Cattle	13.57	3,967,343,580 544,180,516 17,778,907 4,336,719	23	1,394,483,082 17. 20,439,901,164 4,717,069,973 2,228,123,134 43,902,414 13,538,000	76	1,744,984,720 18.28 40,991,449,090 8,498,311,413 5,138,486,000 69,080,000 21,040,000	16.20 2,768,589,340 26.70 Not available Not available 5,969,253,000 58,329,000 21,195,000
Farms & farm property Farm products, value Farm animals, value Cattle no. Horses no. Sheep no.	13.37	3,967,343,580 544,180,516 17,778,907 4,336,719 21,773,220	23	1,394,483,082 17. 20,439,901,164 4,717,069,973 2,228,123,134 43,902,414 13,538,000 41,883,000	76	1,744,984,720 18.28 . 40,991,449,090 8,498,311,413 . 5,138,486,000 . 69,080,000 . 21,040,000 . 57,216,000 .	16.20 2,768,589,340 26.70 Not available 5,969,253,000 58,329,000 21,195,000 49,956,000
Ferr capita. Farms & farm property. Farm products, value. Farm animals, value. Cattle. no. Horses. no. Sheep. no. Mules. no.	13.37	3,967,343,580 544,180,516 17,778,907 4,336,719 21,773,220 559,331	23	1,394,483,082 17. 20,439,901,164 4,717,069,973 2,228,123,134 43,902,414 13,538,000 41,883,000 2,086,000	76	1,744,984,720 40,991,449,090 8,498,311,413 5,138,486,000 69,080,000 21,040,000 57,216,000 4,123,000	16. 20 2,768,589,340 26.70 Not available Not available 5,969,253,000 58,329,000 21,195,000 49,956,000
Per capita Farms & farm property Farm products, value Farm animals, value Cattle No. Horses No. Sheep No. Mules No. Swine No.	13.37	3,967,343,580 544,180,516 17,778,907 4,336,719 21,773,220 559,331 30,354,213	23	1,394,483,082 20,439,901,164 4,717,069,973 2,228,123,134 43,902,414 13,538,000 41,883,000 2,086,000 37,079,000	76	1,744,984,720 40,991,449,090 8,498,311,413 5,138,486,000 69,080,000 21,040,000 57,216,000 4,123,000 47,782,000	16.20 2,768,589,340 26.70 Not available Not available 5,969,253,000 21,195,000 49,956,000 4,479,000 64,618,000
Ferr capita: Farms & farm property Farm products, value. Farm animals, value. Cattle	13.37	3,967,343,580 544,180,516 17,778,907 4,336,719 21,773,220 559,331 30,354,213 52,516,959	23	1,394,483,082 17. 20,439,901,164 4,717,069,973 2,228,123,134 43,902,414 13,538,000 41,883,000 2,086,000 37,079,000 288,636,621	76	1,744,984,720 40,991,449,090 8,498,311,413 5,138,486,000 69,080,000 21,040,000 57,216,000 4,123,000 47,782,000 321,362,750	16.20 2,768,589,340 26.70 Not available Not available 5,969,253,000 21,195,000 49,956,000 44,479,000 64,618,000 288,777,000
Ferr capita Farms & farm property Farm products, value Farm animals, value Cattle no. Horses no. Sheep no. Mules no. Swine no. Production of wool lbs. Wheat bu	13.37	3,967,343,580 544,180,516 17,778,907 4,336,719 21,773,220 559,331 30,354,213 52,516,959 100,485,943	23	1,394,483,082 17. 20,439,901,164 4,717,069,973 2,228,123,134 43,902,414 13,538,000 41,883,000 2,086,000 37,079,000 288,636,621 522,229,505	76	1,744,984,720 18,28 40,991,449,090 8,498,311,413 5,138,486,000 69,080,000 21,040,000 57,216,000 4,123,000 47,782,000 321,362,750 635,121,000	16.20 2,768,589,340 26.70 Not available Not available 5,969,253,000 21,195,000 49,956,000 44,479,000 64,618,000 288,777,000
Fer capita Farms & farm property Farm products, value. Farm animals, value. Cattle no. Horses no. Sheep no. Mules no. Swine no. Production of wool lbs. Wheat bu. Com bu.	15.51	3,967,343,580 544,180,516 17,778,907 4,336,719 21,773,220 30,354,213 52,516,959 100,485,943 592,071,104	23	1,394,483,082 20,439,901,164 4,717,069,973 2,228,123,134 43,902,414 13,538,000 2,086,000 2,086,000 288,636,621 222,229,505 2,105,102,516	76	1,744,984,720 18.28 40,991,449,090 8,498,311,413 5,138,486,000 21,040,000 57,216,000 4,123,000 47,782,000 321,362,750 635,121,000 2,886,260,000	16.20 2,768,589,340 26.70 Not available Not available 5,969,253,000 21,195,000 49,956,000 4,479,000 64,618,000 288,777,000 1,011,505,000 3,054,535,000
Ferr capita Farms & farm property Farm products, value. Farm animals, value. Cattle	15.51	3,967,343,580 544,180,516 17,778,907 4,336,719 21,773,220 559,331 30,354,213 52,516,959 100,485,943	23	1,394,483,082 177 20,439,901,164 4,717,069,973 2,228,123,134 43,902,414 13,538,000 2,086,000 2,086,000 288,636,621 522,229,505 2,105,102,516 10,102,102 163,458,075	76	1,744,984,720 40,991,449,090 8,498,311,413 5,138,486,000 69,080,000 21,040,000 47,782,000 47,782,000 321,362,750 635,121,000 2,886,260,000 11,568,334	16.20 2,768,589,340 26.70 Not available Not available 5,969,253,000 21,195,000 49,956,000 4,479,000 64,618,000 288,777,000 1,011,505,000 3,054,535,000 11,161,000 1,444,108,000
Fer capita Farms & farm property Farm products, value Cattle no. Horses no. Sheep no. Mules no. Production of wool Wheat but Corn but Cotton Beet Beet Sugar lbs	15.51	3,967,343,580 544,180,516 17,778,907 4,336,719 21,773,220 559,331 30,354,213 52,516,959 100,485,943 592,071,104 2,454,442	23	1,394,483,082 20,439,901,164 4,717,069,973 2,228,123,134 43,902,414 13,538,000 2,086,000 37,079,000 288,636,621 522,229,505 2,105,102,516 10,102,102 163,458,075 322,549,011	76	1,744,984,720 40,991,449,090 8,498,311,413 5,138,486,000 69,080,000 21,040,000 47,782,000 47,782,000 321,362,750 635,121,000 2,886,260,000 11,568,334 1,024,938,000 750,400,000	16.20 2,768,589,340 26.70 Not available Not available 5,969,253,000 21,195,000 49,956,000 4,479,000 64,618,000 288,777,000 1,011,505,000 3,054,535,000 11,161,000 1,444,108,000
Ferr capita Farms & farm property Farm products, value. Farm animals, value. Cattle no. Horses no. Sheep no. Mules no. Swine no. Production of wool lbs. Wheat bu. Corn bu. Cotton bales Beet Sugar lbs.	15.51	3,967,343,580 544,180,516 17,778,907 4,336,719 21,773,220 30,354,213 52,516,959 100,485,943 592,071,104	23	1,394,483,082 177 20,439,901,164 4,717,069,973 2,228,123,134 43,902,414 13,538,000 2,086,000 37,079,000 288,636,621 522,229,505 2,105,102,516 10,102,102 163,458,075 322,549,011 79,171,000	76	1,744,984,720 18.28 40,991,449,990 8,498,311,413 5,138,486,000 21,040,000 57,216,000 4,123,000 4,123,000 47,782,000 321,362,750 635,121,000 2,886,260,000 11,568,334 1,024,938,000 750,400,000 96,269,100	16.20 2,768,589,340 26.70 Not available Not available 5,969,253,000 58,329,000 21,195,000 4,79,000 64,618,000 288,777,000 1,011,505,000 3,054,535,000 11,61,000 1,444,108,000 493,239,040 98,891,100
Per capita Farms & farm property Farm products, value. Farm animals, value. Cattle	15.51	3,967,343,580 544,180,516 17,778,907 4,336,719 21,773,220 559,331 52,516,959 100,485,943 592,071,104 2,454,442 247,577,000 50,000,000	23	1,394,483,082 20,439,901,164 4,717,069,973 2,228,123,134 43,902,414 13,538,000 2,086,000 37,079,000 288,636,621 10,102,102 10,102,102 163,458,075 322,549,011 79,171,000 35,741,100	76	1,744,984,720 40,991,449,090 8,498,311,413 5,138,486,000 69,080,000 21,040,000 4,123,000 4,782,000 321,362,750 635,121,000 2,886,260,000 11,558,334 1,024,938,000 750,400,000 96,269,100 30,854,500	16. 20 2,768,589,340 26.70 Not available Not available 5,969,253,000 58,329,000 21,195,000 49,956,000 4,479,000 64,618,000 288,777,000 1,011,505,000 3,054,535,000 11,161,000 1,444,108,000 493,239,040 98,891,100 35,019,628
Fer capita Farms & farm property Farm products, value. Farm animals, value. Cattle	15.51	3,967,343,580 544,180,516 17,778,907 4,336,719 21,773,220 559,331 30,354,213 52,516,959 100,485,943 592,071,104 2,454,442 247,577,000 50,000,000 50,900 6,266,233	23	1,394,483,082 177 20,439,901,164 4,717,069,973 2,228,123,134 43,902,414 13,538,000 2,086,000 2,086,000 2,086,000 2,086,000 2,086,000 2,086,000 2,086,000 2,086,000 2,086,000 37,079,000 288,636,621 10,102,102 163,458,075 322,549,011 79,171,000 35,741,100 240,789,310	76	1,744,984,720 18,28 40,991,449,990 8,498,311,413 5,138,486,000 69,080,000 21,040,000 57,216,000 4,123,000 47,782,000 321,362,750 635,121,000 2,886,260,000 11,558,334 1,024,938,000 750,400,000 96,269,100 30,854,500 447,833,909	16.20 2,768,589,340 26.70 Not available Not available 5,969,253,000 5,329,000 4,479,000 44,79,000 64,618,000 288,777,000 1,011,505,000 3,054,535,000 11,61,000 1,444,108,000 493,239,040 98,891,100 35,019,628 *458,504,890
Fer capita Farms & farm property Farm products, value. Farm animals, value. Cattle	15.51	3,967,343,580 544,180,516 17,778,907 4,336,719 21,773,220 559,331 52,516,959 100,485,943 592,071,104 2,454,442 247,577,000 50,000,000	23	1,394,483,082 177 20,439,901,164 4,717,069,973 2,228,123,134 43,902,414 13,538,000 2,086,000 2,086,000 288,636,621 10,102,102 102,102,516 10,102,102 103,458,075 322,549,011 79,171,000 35,741,100 240,789,310 270,588	76	1,744,984,720 18.28 40,991,449,090 8,498,311,413 5,138,486,000 69,080,000 21,040,000 57,216,000 4,123,000 47,782,000 321,362,750 635,121,000 2,886,260,000 11,558,334 1,024,938,000 750,400,000 96,269,100 30,854,500 447,853,909 448,214	16.20 2,768,589,340 26.70 Not available Not available 5,969,253,000 21,195,000 49,956,000 4,479,000 64,618,000 288,777,000 1,011,505,000 3,054,535,000 11,161,000 1,444,108,000 493,239,040 98,891,110 35,019,628 458,504,890
Fer capita Farms & farm property Farm products, value Cattle	15.51	3,967,343,580 544,180,516 17,778,907 4,336,719 21,773,220 559,331 30,354,213 52,516,959 100,485,943 592,071,104 2,454,442 247,577,000 50,000,000 50,900 6,266,233	23	1,394,483,082 177 20,439,901,164 4,717,069,973 2,228,123,134 43,902,414 13,538,000 2,086,000 2,086,000 2,086,000 2,086,000 2,086,000 2,086,000 2,086,000 2,086,000 2,086,000 37,079,000 288,636,621 10,102,102 163,458,075 322,549,011 79,171,000 35,741,100 240,789,310	76	1,744,984,720 40,991,449,090 8,498,311,413 5,138,486,000 69,080,000 21,040,000 57,216,000 4,123,000 321,362,750 635,121,000 2,886,260,000 11,558,334 1,024,938,000 750,400,000 96,269,100 30,8854,500 447,853,909 482,214 8,801,404,416	16.20 2,768,589,340 26.70 Not available Not available 5,969,253,000 58,329,000 21,195,000 4,79,000 64,618,000 288,777,000 1,011,505,000 3,054,535,000 11,61,000 1,444,108,000 493,239,040 98,891,100 35,019,628 *458,504,890
Fer capita Farms & farm property Farm products, value. Farm animals, value. Cattle	153,509	3,967,343,580 544,180,516 17,778,907 4,336,719 21,773,220 559,331 30,354,213 52,516,959 100,485,943 592,071,104 2,454,442 247,577,000 50,000,000 50,900 6,266,233	23	1,394,483,082 20,439,901,164 4,717,069,973 2,228,123,134 43,902,414 13,538,000 2,086,000 2,086,000 2,086,000 2,086,000 2,086,000 2,086,000 2,086,000 2,086,000 2,086,000 2,086,000 2,086,000 2,086,000 2,086,000 2,086,000 2,086,000 2,086,000 10,102,102 10,102 1	76	1,744,984,720 18.28 40,991,449,090 8,498,311,413 5,138,486,000 69,080,000 21,040,000 57,216,000 4,123,000 47,782,000 321,362,750 635,121,000 2,886,260,000 11,558,334 1,024,938,000 750,400,000 96,269,100 30,854,500 447,853,909 448,214	16.20 2,768,589,340 26.70 Not available Not available 5,969,253,000 21,195,000 49,956,000 4,479,000 64,618,000 288,777,000 1,011,505,000 3,054,535,000 11,161,000 1,444,108,000 493,239,040 98,891,110 35,019,628 458,504,890

PROGRESS OF THE UNITED STATES, 1800-1015-Cont'd

PROGRE	100 01	111	TE OMIT		DIMI	') I	900-1312-	-C01	70 0
	1800		1850		1900		1910		1915
Pig ironlong tons			563,755		13,789,242		27,303,567		29,916,213
Steellong tons					10,188,329		26,094,919		*23,513,030
Iron and steel, and manu-									
factures thereof im-	-								
ported\$			20,145,067		20,478,728		39,807,725		22,702,704
exported (domestic)\$	52,144		1,953,702		121,913,548		179,133,186		225,861,387
Manufactures (miscellane-									
ous) exported, domestic			23,362,600		499,976,695		775,061,067		1,163,327,840
Manufacturing establish-									
mentsno.			123,025		207,514		268,491	* *	Not available
Value of products		1	,019,106,616		11,406,926,701		20,672,051,870		Not available
Tin plates importedlbs.					147,963,804	9.75	154,566,599		10,642,237
Tin plates producedlbs.	48 800 000		/ 2F 304 / 04		677,969,600		1,619,005,000		*2,085,980,000
Cotton exported lbs.	17,789,803	• •	635,381,604		3,100,583,188		3,206,708,226		4,403,578,499
Silk (raw) imported lbs.					13,073,718		23,457,223	4.9	. 31,052,674
Rubber (crude) import-					40 277 120		101,044,681		172,068,428
edlbs.					49,377,138 4,477,174,441	* * *	7,360,130,811		8,626,793,328
Sugar consumedlbs.					ED	91	7,500,150,611	.90.	86.00
Per capita					198,964	×1	240,992	. 90	*263,547
Railways operated, miles Passengers carriedno.					576,831,251		971,683,199		*1,053,138,718
Passengers carried . miles					16,038,076,200		32,338,496,329	• • • • • • • • • • • • • • • • • • • •	*35,258,497,509
Freight carried 1 mi., tons				`1	41,590,551,101		255,010,910,451		
Revenue per ton per				- "			200,020,720,202		200,025,050,010
mile						729.		.753.	,733
Passenger cars in service.					34,713		47.095		53,466
All other cars in service					1,416,125		2,243,236		2,450,356
Vessels built, American,									-,,
gross tons									
	106,261		279,255		393,790		342,068		225,122
Foreign trade, gross tons.			279,255 1,585,711		393,790 826,694	• •	342,068 791,825		225,122 1,871,543
Foreign trade, gross tons. Domestic trade and cod and	106,261 670,573		1,585,711		826,694	• •	791,825		
Domestic trade and cod and mackerel fisheries.g., t.	106,261 670,573 301,919		1,585,711 1,949,743		826,694 4,338,145	••	791,825 6,716,257		
Domestic trade and cod and mackerel fisheries g., t. On Great Lakes g. t.	106,261 670,573 301,919		1,585,711	••	826,694		791,825 6,716,257		1,871,543
Domestic trade and cod and mackerel fisheries.g. t. On Great Lakes g. t. Passing through Sault	106,261 670,573 301,919		1,585,711 1,949,743		826,694 4,338,145		791,825 6,716,257		1,871,543 6,517,886
Domestic trade and cod and mackerel fisheries.g., t. On Great Lakes g. t. Passing through Sault Ste. Marie Canal, net	106,261 670,573 301,919		1,585,711 1,949,743		826,694 4,338,145 1,565,587		791,825 6,716,257 2,895,102		1,871,543 6,517,886 2,818,009
Domestic trade and cod and mackerel fisheries .g t. On Great Lakesg. t. Passing through Sault Ste. Marie Canal, net tons.	106,261 670,573 301,919		1,585,711 1,949,743 198,266		826,694 4,338,145 1,565,587 22,315,834		791,825 6,716,257 2,895,102 49,856,123	•••	1,871,543 6,517,886 2,818,009
Domestic trade and cod and mackerel fisheries.g. t. On Great Lakes g. t. Passing through Sault Ste. Marie Canal, net tons	106,261 670,573 301,919		1,585,711 1,949,743 198,266 5,499,985		826,694 4,338,145 1,565,587 22,315,834 102,354,579	***	791,825 6,716,257 2,895,102 49,856,123 224,128,658	• • • • • • • • • • • • • • • • • • • •	1,871,543 6,517,886 2,818,009 - 56,399,147 287,248,165
Domestic trade and cod and mackerel fisheries.g. t. On Great Lakes g. t. Passing through Sault Ste. Marie Canal, net tons	106,261 670,573 301,919 \$ 280,806 903		1,585,711 1,949,743 198,266 5,499,985 18,417		826,694 4,338,145 1,565,587 22,315,834 102,354,579 76,688	**	791,825 6,716,257 2,895,102 49,856,123 224,128,658 59,580		1,871,543 6,517,886 2,818,009 - 56,399,147 287,248,105 56,380
Domestic trade and cod and mackerel fisheries.g. t. On Great Lakes g. t. Passing through Sault Ste. Marie Canal, net tons	106,261 670,573 301,919 \$ 280,806 903		1,585,711 1,949,743 198,266 5,499,985 18,417 993		826,694 4,338,145 1,565,587 22,315,834 102,354,579 70,688 20,499	***	791,825 6,716,257 2,895,102 49,856,123 224,128,658 59,580 35,930		1,871,543 6,517,886 2,818,009 . 56,399,147 287,248,165 56,380 44,934
Domestic trade and cod and mackerel isheries g. t. On Great Lakes g. t. Passing through Sult Ste. Marie Canal, net tons. Post-Office Dept., Revenue Post-offices no. Patents issued no. Immigrants arrived no.	106,261 670,573 301,919 \$ 280,806 903		1,585,711 1,949,743 198,266 5,499,985 18,417		826,694 4,338,145 1,565,587 22,315,834 102,354,579 70,688 20,490 448,572	***	791,825 6,716,257 2,895,102 49,856,123 224,128,658 59,580 35,930 1,041,570		1,871,543 6,517,886 2,818,009 56,399,147 287,248,165 56,380 44,934 320,700
Domestic trade and cod and mackerel fisheries.g. t. On Great Lakes g. t. Passing through Sault Ste. Marie Canal, net tons. Post-Office Dept., Revenue Post-Offices no. Patents issued no. Immigrants arrived no. Public school salaries	106,261 670,573 301,919 \$ 280,806 903		1,585,711 1,949,743 198,266 5,499,985 18,417 993		826,694 4,338,145 1,565,587 22,315,834 102,354,579 70,688 20,499 448,572 137,687,746	***	791,825 6,716,257 2,895,102 49,856,123 224,128,658 59,580 35,930 1,041,570 †253,915,170		1,871,543 6,517,886 2,818,009 - 56,399,147 287,248,165 56,380 44,934 322,700 323,610,915
Domestic trade and cod and mackerel isheries g. t. Con Great Lakes g. t. Passing through Sult Ste. Marie Canal, net tons. Post-Office Dept., Revenue Post-offices no. Patents issued no. Immigrants arrived no. Public school salaries Commercial failures no.	106,261 670,573 301,919 \$ 280,806 903		1,585,711 1,949,743 198,266 5,499,985 18,417 993		826,694 4,338,145 1,565,587 22,315,834 102,354,579 70,688 26,490 448,572 137,687,746	***	791,825 6,716,257 2,895,102 49,856,123 224,128,658 59,580 35,930 1,041,570 †253,915,170		1,871,543 6,517,886 2,818,009 - 56,399,147 287,248,165 56,380 44,934 326,700 323,610,915 22,156
Domestic trade and cod and mackerel fisheries .g. t. On Great Lakes g. t. Passing through Sault Ste. Marie Canal, net tons Post-Office Dept., Revenue Post-Offices no. Patents issued no. Immigrants arrived no. Public school salaries \$Commercial failures no. Liabilities no.	106,261 670,573 301,919 280,806 903		1,585,711 1,949,743 198,266 5,499,985 18,417 993		826,694 4,338,145 1,565,587 22,315,834 102,354,579 70,688 20,490 48,572 137,087,746 10,774 138,495,673	***	791,825 6,716,257 2,895,102 49,856,123 224,128,658 59,580 35,930 1,041,570 †253,915,170 12,652 201,757,007		1,871,543 6,517,886 2,818,009 - 56,399,147 287,248,105 56,380 44,934 320,700 323,610,915 22,156 302,286,148
Domestic trade and cod and mackerel fisheries.g. t. On Great Lakesg. t. Passing through Sault Ste. Marie Canal, net tons. Post-Office Dept., Revenue Post-Officesno. Patents issuedno. Immigrants arrivedno. Public school salaries\$ Commercial failuresno. Liabilities\$ Telegrams sentno.	106,261 670,573 301,919 280,866 903		1,585,711 1,949,743 198,266 5,499,985 18,417 993		826,694 4,338,145 1,565,587 22,315,834 102,354,579 70,688 26,490 448,572 137,687,746	***	791,825 6,716,257 2,895,102 49,856,123 224,128,658 59,580 35,930 1,041,570 †253,915,170 22,652 201,757,097		1,871,543 6,517,886 2,818,009 - 56,399,147 287,248,105 56,380 44,934 320,700 323,610,915 22,156 302,286,148
Domestic trade and cod and mackerel isheries g. t. On Great Lakes g. t. Passing through Sult Ste. Marie Canal, net tons. Post-Office Dept., Revenue Post-offices no. Patents issued no. Immigrants arrived no. Public school salaries Commercial failures no. Liabilities	106,261 670,573 301,919 \$ 280,806 903		1,885,711 1,949,743 198,266 5,490,985 18,417 993 369,980		826,694 4,338,145 1,565,587 22,315,834 102,354,579 76,688 26,490 448,572 137,687,746 10,774 138,495,673 63,107,783	***	791,825 6,716,257 2,895,102 49,856,123 224,128,658 59,580 35,930 1,041,570 †253,915,170 7253,915,170 75,135,405	::	1,871,543 6,517,886 2,818,009 - 56,399,147 287,248,105 50,380 44,934 320,700 323,610,915 22,156 302,280,148 (b) 90,000,000Est.
Domestic trade and cod and mackerel fisheries.g. t. On Great Lakesg. t. Passing through Sault Ste. Marie Canal, net tons. Post-Office Dept., Revenue Post-Officesno. Patents issuedno. Immigrants arrivedno. Public school salaries\$ Commercial failuresno. Liabilities\$ Telegrams sentno.	106,261 670,573 301,919 \$ 280,806 903		1,885,711 1,949,743 198,266 5,490,085 18,417 993 369,980		826,694 4,338,145 1,565,587 22,315,834 102,354,579 70,688 20,490 48,572 137,087,746 10,774 138,495,673	40	791,825 6,716,257 2,895,102 49,856,123 224,128,658 59,580 35,930 1,041,570 12,652 201,757,007 75,135,405	::	1,871,543 6,517,886 2,818,009 - 56,399,147 287,248,165 56,380 44,934 326,700 323,610,915 22,156 302,280,148 (b) 90,000,000Est.

CENTER OF POPULATION FROM 1790-1910

	North			West					
Census	atitude			ongituo	ie	Approximate location	M	ove	ment
year D.	M.		D,		S.			177 277	riles
179039	16	30	76	11	12	23 miles east of Baltimore, Md			
180039	16	6	76	56	30	. 18 miles west of fallimore Mid			40.6
181039	11	30	77	37	12	40 miles northwest by west of Washington, D. C.			36 D
182039	5	42	78	33	U	. To mues north of Woodstock, Va			50 5
183038	57	54	79	16	2-4	19 miles west-southwest of Mooreheld, W. Va."			40 4
184039	2	0	80	18	0	10 miles south of Clarksburg, W. Va.*			55 0
185038	59	0	81	19	U	23 miles southeast of Farkersburg, W. Va.*			54 8
186039	0	24	82	48	48	20 miles south of Chilicothe, O			80 6
187039	12	0	83	35	42	48 miles east by north of Cincinnati, O			44 1
188039	4	8	84	39	40	8 miles west by south of Cincinnati, O			58 1
189039	11	56	85	32	53	20 miles east of Columbus. Ind			18 6
190039	9	36	85	48	54	6 miles southeast of Columbus, Ind			14 6
191039	10	12	86	32	20	In the city of Bloomington, Ind			39.0
						Wast Vinvinia formal part of Vincial and 1962			

UNITED STATES COINAGE MINTS AND ASSAY OFFICES

Coinage mints of the United States are located in Philadelphia, Pa.; San Francisco, Cal.; and Denver, Col. The government assay offices are in New York, N. Y.; Carson, Nev.; Denver, Col.; Boise, Idaho: Helena, Mont.; Charlotte, N. C.; St. Louis, Mo.; Deadwood, S. D.; Seattle, Wash.; New Orleans, La.; and Salt Lake City, Utah. The mint in Philadelphia was established in 1792 and the others as follows: San Francisco, 1852, and Denver, 1904.

THE PAN AMERICAN UNION

The Pan American Union was organized for the purpose of promoting friendship and commerce between the twenty-one American Republics, each of which contributes to the maintenance of the institution in proportion to its population. The building in which the Union is housed at Washington stands upon land provided by the United States at a cost of \$200,000, The building, costs \$1,000,000 three-fourths of which was paid by Andrew Carnegie, and one-fourth by the twenty Republics of Latin-America.

DEVELOPED AND POTENTIAL WATER POWER IN THE UNITED STATES

Prior to the discovery of electrical transmission of power over long distances, water power could be utilized only at the power site. This limited its development in most cases to comparatively small units, and almost exclusively to manufacturing enterprises. The introduction of electric-power transmission not only provided a means of supplying distant manufacturing and domestic demands, but also opened up an entirely new power field, namely, the operation of street railways and lighting plants, and enormously increased the relative importance of water power. Thus the development of water power (based on installed wheel capacity) for railway and lighting purposes increased from 487,000 h.p. in 1902 to 1,441,000 h.p. in 1907 (the latest date for which statistics are available), or by nearly 200 per cent. In manufacturing industries, where transmission by electricity is infrequent, water-power development during the period 1900-1905 increased by only 11 per cent. Prior to the discovery of electrical transmission of power over

Developed Water Power in Various States*

	_ c.croped .	THEOR I O	WCI III VO	mione pri	1169			шахинин
			and under	1		United States	26,736,000	51,398,000
	State		uction	Undevel- oped	Total	North Atlantic States:		
		Commer-	Manufac- turing	obea	1	Maine New Hampshire	443,000 135,000	809,000 246,000
						Vermont	94,000	172,000
	TT-24-1 C4-4	h.p.	h.p.	h.p.	h.p.	Massachusetts	118,000	228,000
	United States	2,961,549	1,054,578	2,638,528	6,654,655	Rhode Island	6,000	13,000
	No. Atlantic States:				1	Connecticut New York	72,000	137,000
	Maine	65,360	168,338	100,000	333,698	New Jersey.	1,037,000 44,000	1,698,000 106,000
	New Hampshire.	16,450	103,658	13,500	133,608		276,000	684,000
	Vermont		40,197	44,460	138, 305	South Atlantic States:	2,0,000	001,000
	Massachusetts	76,697	53,922	14,620	145,239	Delaware	5,000	11,000
	Connecticut New York	32,000	15,519	4,000	51,519		43,000	122,000
	New Jersey	398,058 7,200	315,313	193,093	906,464	District of Columbia	5,000	11,000
	Pennsylvania	169,632	* * * * * * * * * * * * * * * * * * *	13,142	182,774	Virginia	492,000 381,000	870,000 1,051,000
	So. Atlantic States:	100,002	* # 6,075 * * * *,	10,142	102,772	North Carolina	578,000	875,000
	Virginia	33,700	17,620	44,800	96,120	South Carolina	460,000	677,000
	West Virginia	5,250	16,150	1,250	22,650	Georgia	374,000	627,000
	No. Carolina		14,050	61,425	158,435	Florida	8,000	13,000
	So. Carolina Georgia	135,040 126,927	47,457	95,585	278,082	Western States:	0.740.000	4 224 000
	Florida	5,000	12,350	286,350	425,627 5,000	MontanaIdaho	2,749,000 1,162,000	4,331,000 2,567,000
	No. Central States:	. 0,000		••••••	5,000	Wyoming	773.000	1,305,000
Ē.	Ohio	4,025		6,675	10,700	Colorado	842,000	1,697,000
	Indiana		4,250	1,000	15,675	New Mexico	100,000	439,000
	Illinois	38,460	12,751	62,100	113,311	Arizona	893,000	1,698,000
	Michigan	102,682	30,420	117,650	250,752	Utah	743,000	1,318,000
	Wisconsin Minnesota	96,799 95,815	106,153 72,200	91,400 101,600	294,352 269,615	Nevada	172,000 4,932,000	276,000 8,647,000
	Iowa	151,400	\$2,200	151,000	302,400	Oregon	3.148.000	6,613,000
	So. Dakota	5,000		3,167	8,167	California	3,424,000	7,818,000
	Kansas	6,800		200	7,000			
- 1	So. Central States:					* North and South Central States of		
	Tennessee	62,000	40.450	3,862	65,862	Approximately 11,500,000 h.p. or	43 per cent	of the total
٠,	Alabama	6,000	10,450		16,450	estimated minimum power of the	Washington	plind in the
	Montana	139,260		105,700	244,960	States of California, Oregon, and great central basin of the United S	tates has pr	actically no
7	Idaho	52,100		42,300	94,400	weeter nower the only plant of an	v consequen	ce being at
	Colorado	69,690		59,000	128,690	Keokuk Iowa, where a dam has been	n bullt across	the Missis-
2	Arizona				16,200	sinni which is canable of developing	300,000 nors	epower.
*	Utah			2,600 24,000	55,300 38,200	Water power is unlike most other	natural resou	by non-use
	Nevada	14,200 300,510		115,700	416,210	it is not diminished by use, nor is in Coal which is not used to-day remain	ne to he use	d hereafter.
	Oregon	95,777		143,600	239,377	but the energy of water which is all	owed to flow	y by unused
	California	429,467	6,000	732,749	1,168,216	neither increases nor decreases the fu	iture supply,	Dut is irre-
	Other States, not					trievably lost Our supply of coal-	-the principa	al source of
	enumerated	4,317	7,780	2,000	14,097	energy—while vast, is not unlimit	ed. The u	tilization of
-	#O	4ham 1 000	h = ovolu	dod State	on omitted	water power results in the saving of	coal for fut	m-use while
£	*Ownership of less	no conce	rns report	ing develo	ned water	other words, the real waste of water poits development effects a conservation,	not only of	water power.
1	lowers of 1,000 h.p. o	or over.				but of our fuel supply as well.		
7	†Embracing one co	oncern in M	Iissouri an	d four each	in Mary-	In some parts of the country the es	timate of cor	al consumed
1	and and Rhode Islan	nd.				per horse-nower per year ranges iros	m ten to 101	urteen tons,
	War Alex a house of	table it is	moon that	the total 1	OFCEDAWET	while the same unit of power elsewhere	within the U	miled States

tana with 4.7 per cent, South Carolina with 4.6 per cent, Georgia with 4.3 per cent. Ohio has only about 4,000 h.p. developed.

The five states of Maine, New Hampshire, Vermont, Massa-chusetts and Connecticut have 36 per cent of the developed manufacturing power and New York has 30 per cent, thus giving to these six States 66 per cent of the total. By far the greatest amount of undeveloped power is found in California. Georgia is second and New York third.

Potential Water Power in Various States*

	basis of 7.	orsepower on 5 per cent ciency
•	Minimum	Assumed maximum
United States	26,736,000	51,398,000
North Atlantic States:		
Maine	443,000	809,000
New Hampshire	135,000	246,000
Vermont	94,000	172,000
Massachusetts	118,000	228,000
Rhode Island	6,000	13,000
Connecticut	72,000	137,000
New York	1,037,000	1,698,000
New Jersey	44,000	106,000
Pennsylvania	276,000	684,000
South Atlantic States:		,
Delaware	5,000	11,000
Maryland	43,000	122,000
District of Columbia	5,000	11,000
Virginia	492,000	870,000
West Virginia	381,000	1,051,000
North Carolina	578,000	875,000
South Carolina	460,000	677,000
Georgia	374,000	627,000
_Florida	8,000	13,000
Western States:		
Montana	2,749,000	4,331,000
Idaho	1,162,000	2,567,000
Wyoming	773,000	1,305,000
Colorado	842,000	1,697,000
New Mexico	100,000	439,000
Arizona	893,000	1,698,000
Utah	743,000	1,318,000
Nevada	172,000	276,000
Washington	4,932,000	8,647,000
Oregon	3,148,000	6,613,000
California	3,424,000	7,818,000

From the above table it is seen that the total horsepower ownict the same unit of power elsewhere within the United States owned by concerns reporting to the Bureau is 6,654,655, of which 4,016,127 h.p. is developed and 2,638,528 h.p. undevel- and make the allowance nine tons annually for each horsepower. California leads with 14.5 per cent. of the "commercial power, 6,000,000 h.p. developed by water would mean a yearly power," developed and under construction, followed by New reduction of the tax upon our mines of 54,000,000 tons of coal, York with 13.4 per cent, Washington with 10.1 per cent, or one-tenth of the coal now dug from the earth within our boundaries.

NATIONAL BANKING AND CURRENCY LAW

On December 23, 1913, Congress passed a new Banking and Currency law which is aimed to provide a more flexible currency to meet our needs as a growing nation.

FEATURES OF THE LAW FEDERAL RESERVE BOARD

The Federal Reserve Board consists of seven members, notes, but two of whom are the Secretary of the Treasury and the Compensation of the Currency. The others are appointed by the President. Each member's salary is \$12,000. Those appointted are:

d are:
A. C. Miller of California—10 year term.
W. P. G. Harding of Alabama—8 year term.
Frederic A. Delano of Illinois—6 year term.
Paul M. Warburg of New York—4 year term.
Charles S. Hamlin of Massachusetts—10 year term.
Mr. Harding is Governor of the Board and Mr. Warburg is

Vice-Governor.

Mr. Hamlin, the former Governor of the Board was reappointed on Aug. 10, 1916 for 10 years.

POWERS OF THE FEDERAL RESERVE BOARD
To examine Federal Reserve Banks and Member Banks.
To permit or require Federal Reserve Banks to re-discount paper of other Federal Reserve Banks at rates to be fixed by

this Board. To suspend for stated periods reserve requirements and to establish a tax on decreasing reserves.

To regulate the issue of Notes.

To add to or reclassify Reserve and Central Reserve Cities. To suspend or remove officials of Federal Reserve Banks. To require writing off doubtful assets of Federal Reserve

To suspend, liquidate or reorganize Federal Reserve Banks violating this Act.

To require bonds of Federal Reserve Agents; to perform all duties, etc., specified or implied in this Act, and to make all necessary rules and regulations.

To grant to national banks when not in contravention of state law the right to act as trustee, executor, administrator or registrar of stocks and bonds.

To exercise functions of Clearing House for Prival 2.

To exercise functions of Clearing House for Federal Reserve Banks, or may designate a Federal Reserve Bank to do the same, and may require each Federal Reserve Bank to so act for its Member Banks.

To levy upon Federal Reserve Banks semi-annual assessments

sufficient to meet estimated expenses of the Board.
To exercise general supervision over Federal Reserve Banks.
To define character of bills eligible for discount by Federal
Reserve Banks, and to limit and regulate rediscounts and

May establish rate of interest to be charged Federal Reserve Banks on Federal Reserve Notes issued. May fix the charges to be collected by Member Banks for checks cleared through Federal Reserve Banks. FEDERAL RESERVE BANKS

There are 12 Federal Reserve Banks in a like number of districts known as Federal Reserve Districts covering the entire continental United States. These 12 Banks are located as follows:

Boston.
New York.
Philadelphia.
Cleveland.
Richmond.

Chicago. St. Louis. Minneapolis. 10. Kansas City. Dallas.

6. Atlanta.
Each of the Federal Reserve Banks is controlled by 9 directors elected or appointed as follows:
3—Elected by Member Banks representing banks.
3—Elected by Member Banks representing business interests of

District-directors, officers or employees of any bank not eligible.

eligible.

3—Appointed by Federal Reserve Board, one a person of banking experience, to be chairman and designated as "Federal Reserve Agent." Directors, officers, employees or stockholders of any bank not eligible.

These banks must each have a capital of at least \$4,000,000. Shares are \$100 par value, tax exempt, to be subscribed by Member Banks in District, and under certain conditions by U. S. Treasury, and by general public, subscriptions or holdings by latter not to exceed \$25,000 by any individual, co-partnership or corporation. Only stock owned by Member Banks can be voted; such stock not to be transferred nor hypothecated.

Earnings:—6% cumulative dividends; remainder—½ to surplus up to 40% of paid-in capital, after this all earnings to U. S. as a franchise tax, to be applied either to gold reserve, or to retirement of outstanding U. S. bonds.

They must maintain reserves in gold or lawful money of at least 35% of its deposits, in addition to 40% reserve against notes, but the Board has the right to waive this reserve in appropriate.

MEMBER BANKS

Every National Bank must, and eligible State Institutions may, at any time join the Federal Reserve Bank in their District, by subscribing to stock a sum equal to 6% of their paid-up capital and surplus, one-sixth to be payable on call, one-sixth within three months, and one-sixth within six months thereafter, the remainder on call. State Banks may become National Parks and Parks and Parks and Capacity II.

after, the remainder on call. State Banks may become National Banks. National Banks are no longer required to deposit U. S. bonds with the Treasurer.

The law is very strict regarding the reserves to be maintained by the Member Banks. The new Act has a tax—a kind of sliding scale—which it taxes a bank that falls below its requirements—but the system is so flexible as to enable the

banking system always to meet emergencies.

BASIS OF OUR NEW CURRENCY

Our previous bank currency was issued on bonds of the United States Government as a basis. The more bonds we issued the more currency or money there might be in circulation, but the poorer was our credit as a Nation. The more is owed, the more money we had in circulation. The more bonds or indebtedness the Government paid off, the less currency we had, and consequently in times when the Government was the soundest financially and was paying off its debts the fastest, the less notes the banks could issue for the development of the

country. The new form of currency is based—not on government bonds—but on credit. By the old system the banks used to invest their money at home, among their local people, when they could do so advantageously. But if there was not a demand for all their money at home, they were accustomed to send their surplus funds to their reserve city banks in the large centers like New York or Chicago. These reserve city banks paid two per cent. on the sums thus deposited. Or else, the local banks might send some of their funds to their correspondent banks with instructions to lend the money 'on call' at current money market rates—which means that frequently the local banks could get a higher rate of interest for the money in Wall Street than at home—with the deterrent effect upon local industry. industry.

These funds were then loaned out on 'liquid' collateral—securities that could be converted rapidly into cash. Most of these liquid securities are New York Stock Exchange stocks or bonds. Lending money in this way, gave rise to speculation in Stock Exchange securities by Stock Exchange operators. The result of such speculation was to make a few men immensely rich and the banks had no control over the situation.

The new legislation undoes this centralization of power and makes the banking system a unit under the Federal Reserve Board.

These 12 Reserve Banks have a paid up capital of about \$54,195,000. If reserve is low in one reserve center it will be shifted from one or more of the others in order to keep a suitable balance for the benefit of business, and to prevent a stringency of money or credit in any one section.

New Currency Act will stop money panics by having all the resources of the country to apply in case of stress, with the banks freed from reserve requirements if necessary, and by having all the banks united as one unit to stop a run or a panic in any one portion of the country before it spreads.

The United States has today over 30,000 banks of all kinds representing an average of one to every 3,300 inhabitants. Of these banks 19,240 are organized under State laws, while 3,246 are designated as non-reporting banks by the Treasury Department. The remaining 7,613, organized under the old national banking act, stand as the nucleus of the new Federal

When the old national banking law was enacted in 1863, the banking power of the United States was only \$1,137,900,000. Today it is over \$25,397,100,000.

HOW TO GET A COPYRIGHT

FOR WORKS REPRODUCED IN COPIES FOR SALE.-1. Publish the work with the copyright notice. The notice may be in the form "Copyright, 19.... (year date of publication), by (name of copyright proprietor)." See below for additional information as to the form and place of the notice. The date in the copyright notice should agree with the year date of

m the copyright notice should agree with the year date or publication.

2. Promptly after publication, send to the Copyright Office, Library of Congress, Washington, D. C., two copies of the best edition of the work, with an application for registration and a money order payable to the Register of Copyrights for the statutory registration fee of \$1\$. As to special fee for registration of photographs, see below.

In the case of books the copies deposited must be accompanied by an affidayit, under the official seal of an officer authorized to administer oaths, stating that the type-setting, printing, and binding of the book have been performed within the United States. Affidavit and application forms will be supplied by the Copyright Office on request.

This affidavit is not required in the case of a book of foreign origin in a language or languages other than English, as such books are not required to be manufactured in the United States. In the case of contributions to periodicals send one complete copy of the periodical containing the contribution with application and fee. No affidavit is required.

For WORKS NOT REPRODUCED IN COPIES FOR SALE.—Copy-

FOR WORKS NOT REPRODUCED IN COPIES FOR SALE.—Copyright may also be had of the works of an author, of which copies are not reproduced for sale, by the deposit, with claim of copyright, of one complete copy of such work if it be a lecture or similar production or a dramatic musical or dramatico-nusical composition; of a title and description, with one print taken from each scene or act, if the work be a motion-picture photoplay; of a photographic print, if the work be a photograph; of a title and description, with not less than two prints taken from different sections of a complete motion picture; if the work be a motion picture other than a photoplay; or of a photograph or other identifying reproductions thereof, if it be a work of art or a plastic work or drawing. But the privilege of registration of copyright secured hereunder shall not exempt the copyright proprietor from the deposit of copies, where the work is later reproduced in copies for sale. FOR WORKS NOT REPRODUCED IN COPIES FOR SALE.—COPY-

FEES.—The statutory fee for registration of any work is one dollar, including a certificate of registration under seal. In the case of a photograph, if a certificate is not demanded the fee is fifty cents. In the case of several volumes of the same book deposited at the same time, only one registration at one fee

IS required.

NOTICE OF COPYRIGHT IN PRINTED WORKS.—The law prescribes that the copyright notice shall consist either of the word "Copyright" or the abbreviation "Copr.", accompanied by the name of the copyright proprietor, and the year in which publication was made. In the case, however, of copies of works specified in subsections (F) to (K) inclusive, of section 5 works specified in subsections (r) to (R) inclusive, or section of the copyright art namely, maps, works of art, reproductions of works of art, drawings or plastic works, photographs, and prints or pictorial illustrations, the notice may consist of the letter C inclosed within a circle, accompanied by the initials,

INFRINGEMENT

If any person shall infringe the copyright in any work pro-tected under the copyright laws of the United States, such person shall be liable:

person shall be liable:

(a) To an injunction restraining such infringement.

(b) To pay to the copyright proprietor such damages as the copyright proprietor may have suffered due to the infringement as well as all the profits which the infringer shall have made from such infringement, and in proving profits the plaintiff shall be required to prove sales only and the defendant shall be required to prove every element of cost which he claims, or in living factored damages, and profits such damages as to the court. required to prove every element of cost which he claims, or in lieu of actual damages and profits such damages as to the court shall appear to be just and in assessing such damages the court may, in its discretion, allow the amounts as hereinafter stated, but in case of a newspaper reproduction of a copyrighted photograph such damages shall not exceed the sum of \$200 nor be less than the sum of \$50, and in the case of the infringement of a undramatized or non-dramatic work by means of motion pictures, where the infringer shall show that

monogram, mark, or symbol of the copyright proprietor: Provided, That on some accessible portion of such copies or of the margin, back, permanent base, or pedestal, or of the substance on which such copies shall be mounted, his name shall appear. But in the case of works in which copyright is subsisting when this act shall go into effect, the notice of copyright may be either in one of the forms prescribed herein or in one of those prescribed by the Act of June eighteenth, sinkten hundred and esymptotom. eighteen hundred and seventy-four.

In the case of a periodical the notice should be applied either upon the title-page, or upon the first page of text of each separate number, or under the title heading; if a musical work,

upon its title page or the first page of music.

One notice of copyright in each number of a newspaper or periodical published suffices.

Where the copyright proprietor has sought to comply with the law with respect to notice, the omission of such notice by mistake from a particular copy or copies shall not invalidate the copyright or prevent recovery for infringement against any person who, after actual notice of the copyright, begins an undertaking to infringe it, but shall protect an innocent infringer who has been misled by the omission of the notice against the recovery of damages

REMITTANCES should be made by money order, payable to the Register of Copyrights. All remitters are respectfully urged to send an identifiable remittance. Postage stamps or checks

should not be sent as fees.

APPLICATION FORMS.—The Copyright office has issued the following application forms, which should be used when apply-

ionowing application forms, which should be used when applying for copyright registration:

A1. Book by citizen or resident of the U.S.
A1 for. Book by citizen or resident of a foreign country, but manufactured in the U.S.
A2. Edition printed in the United States of a book originally

published abroad in English.

A3. Book by foreign author in foreign language.

A4. Ad interim. Book published abroad in the English language.

A5. Contribution to a newspaper or periodical.
B1. Periodical. Registration of single issue:
B2. Periodical. General application and deposit.

C. Lecture, sermon, or address.
D1. Published dramatic composition.

D2. Dramatic composition not reproduced for sale.

Dramatico-musical composition. Published musical composition.

Musical composition not reproduced for sale.

E.2. Musical composition not reproduced for sale.

F. Published map.
G. Work of art (painting, drawing, or sculpture); or model or design for a work of art.
H. Reproduction of a work of art.
I. Drawing or plastic work of a scientific or technical

character.
J1. Photograph published for sale.
J2. Photograph not reproduced for sale.
K. Print or pictorial illustration.
L. Motion-picture photoplays;
M. Motion pictures other than photoplays.

OF COPYRIGHT

he was not aware that he was infringing, and that such infringement could not have been reasonably foreseen, such damages shall not exceed the sum of \$100; and in the case of an infringement of a copyrighted dramatic or dramaticomusical work by the maker of motion pictures and his agencies for distribution thereof to exhibitors, where such infringer shows that he was not aware that he was infringing a copyrighted work and that such infringements could not reasonably have been foreseen, the entire sum of such damages recoverable by the copyright proprietor from such infringing maker and his agencies for the distribution to exhibitors of such infringing motion picture shall not exceed the sum of \$5,000 nor be less than \$250, and such damages shall in no other case exceed the sum of \$5,000 nor be less than the sum of \$250, and shall not be regarded as a penalty. But the foregoing exceptions shall not deprive the copyright proprietor of any other remedy given him under this law, nor shall the limitation as to the amount of recovery apply to infringements

occurring after the actual notice to a defendant, either by service of process in a suit or other written notice served upon

- 1. In the case of a painting, statue, or sculpture, \$10 for every infringing copy made or sold by or found in the possession of the infringer or his agents or employers:
- 2. In the case of any work enumerated in section five of the Copyright Act, except a painting, statue or sculpture, \$1 for every infringing copy made or sold by or found in the possession of the infringer or his agents or employees:

3. In the case of a lecture, sermon, or address, \$50 for every

3. In the case of a lecture, sermon, or address, \$50 for every infringing delivery:

4. In the case of a dramatic or dramatico-musical or a choral or orchestral composition, \$100 for the first and \$50 for every subsequent infringing performance; in the case of other musical compositions \$10 for every infringing performance:

(c) To deliver up on oath, to be impounded during the pendency of the action, upon such terms and conditions as the court may prescribe, all articles alleged to infringe a copyright:

(d) To deliver up on oath for destruction all the infringing copies or devices, as well as all plates, moulds, matrices or other means for making such infringing copies as the court

may order:

(e) Whenever the owner or a musical copyright has used or permitted the use of the copyrighted work upon the parts of musical instruments serving to reproduce mechanically the musical instruments serving to reproduce mechanically the musical work, then in case of infringement of such copyright by the unauthorized manufacture, use, or sale of interchangeable parts, such as disks, rolls, bands, or cylinders for use in mechanical music-producing machines adapted to reproduce the copyrighted music, no criminal action shall be brought, but in a civil action an injunction may be granted upon such terms as the court may impose, and the plantiff shall be entitled to recover in lieu of profits and damages a royalty provided also that whenever any person in the absence of a license agreement, intends to use a copyrighted musical composition upon the parts of instruments serving to reproduce mechanically the musical Intends to use a copyrighted musical composition upon the parts of instruments serving to reproduce mechanically the musical work, relying upon the compulsory license provision of this act, he shall serve notice of such intention, by registered mail, upon the copyrighted proprietor at his last address disclosed by the records of the copyright office, sending to the copyright office a duplicate of such notice; and in case of his failure so to do the court may, in its discretion, in addition, award the complainant a further sum, not to exceed three times the amount provided by section one, subsection (e), of the Copyright Act, by way of damages, and not as a penalty, and also a temporary injunction until the full award is paid.

THE NOBEL PRIZES

Five prizes are annually awarded from the fund of \$9,000,000 bequeathed for the purpose by Alfred Bernard Nobel, a Swedish inventor, who died in 1896. From the invention and manufacture of dynamite and smokeless powder he made his fortune. The prizes average about \$40,000 each annually, and with gold medals and diplomas, are awarded on December 10 of each year, the anniversary of the death of the founder. The sum available for the prizes is divided into five equal parts and distributed as follows: "One to the person who, in the domain of physics, has made the most important discovery or invention, one to the person who has made the most important chemical discovery made the most important discovery or invention, one to the person who has made the most important chemical discovery or invention, one to the person who has made the most important discovery in the domain of medicine or physiology, one to the person who in literature has provided the most excellent work of an idealistic tendency, and one to the person who has worked most or best for the fraternization of nations and the abolition or reduction of standing armies, and in the calling and proparating of peace congresses."

or reduction of standing armies, and in the calling and propagating of peace congresses."

The Swedish Academy of Science awards the prizes in physics and in chemistry; the Caroline Institute in Stockholm that in medicine; the Swedish Academy in Stockholm that in literature; and a committee of five members, chosen by the Norwegian Storthing (legislature), the peace prize. The Nobel Institute began its work in 1900. It is composed of four members, who must be Swedes, elected for two years each by deputies selected by the four institutions named, and a fifth, chosen by the Swedish Government, who is president of the Institute. The Institute has the care of the funds and hands over to the awarders the amounts to be given as prizes. Within six months after the awards the recipients, except of the peace prize, are expected to lecture before the institution charged with the award.

The prizes for 1916 and those following will be reduced \$5,000, representing the amount of the new Swedish Defense

\$5,000, representing the amount of the new Swedish Defense

The awards for 1915 were as follows: Medicine—(1914) Dr. Robert Barany of Vicana University.

Medicine—(1914) Dr. Robert Barany of Vienna University. No prize for 1915.
Physics—Thomas A. Edison, U. S. and Nikola Tesla.
Chemisty—Prof. Theodor Svedberg
Literature—Romain Roland, France; Hendrik Pontoppidan,
Troles Lund, Denmark and Verner von Heidenstam, Sweden.
Peace—No prize awarded since 1913
Up to the present time six Americans have received the Nobel prizes. They are Prof. Albert A. Michelson, of the University of Chicago, who was awarded the prize for physics in 1907; Theodore Roosevelt, who received the peace prize in 1906, in recognition of his efforts to end the war between Russia and Japan, Dr. Alexis Carrel, for medicine and Elihu Root for peace in 1912. Prof. Theodore W. Richards of Harvard University for Chemistry in 1914 and Thomas A. Edison who received the prize for Physics in 1915.

THE RHODES SCHOLARSHIPS

The Rhodes Scholarships at Oxford University, Eng., were established under the will of Cecil Rhodes, the South African millionaire. He died at Cape Town, March 26, 1902, and his will, dated July 1, 1899, directed the trustees to apply a part of his fortune, about \$10,000,000, to the establishment of a fund for the support of a certain number of scholarships to cover the cost of a three years' course at Oxford. He allotted 100 to the United States (two to each State and Territory), 15 to Germany, and from 3 to 9 each to the several British Colonies. In their award account was to be taken not only of scholastic and literary attainments, but also of qualities of manhood, truth, courage, devotion to duty, generosity, kindness, moral force of character, desire to serve the public, and success in athetic sports. The methods of choosing the scholars vary. In most of the States of this country the choice is left to a Committee of Selection. This system also prevails in four Canadian provinces, and in Bermuda, Jamaica, Newfoundland, New Zealand, and Australia. In Cape Colony the scholars are chosen by the schools to which the scholarships are assigned, and in Germany the students are named by the Emperor. In a few of the States in this country and some Canadian provinces the choice is made in turn by the leading universities. In this country candidates must have completed in a satisfactory manner at least two years' work in a college of liberal arts and sciences. The limits of age are 19 and 25. The student must be a U. S. citizen with five years' domicile and be unmarried. The annual allowance to each student has gone into college residence at Oxford. Qualifying examinations, which are not competitive, are held in October in some states, every year. The next examinations will be in 1917. Information in regard to particulars can be secured at any college, or from F. J. Wylie, Oxford Secretary to the Rhodes Trustees, Oxford, Eng., or the Secretary to the Rhodes Trustees, Oxford, Eng., or the Secretary to the Rhodes

NEW METHOD OF ELECTING RHODES SCHOLARS

In July 1914, the Rhodes Trustees announced a change in the method of electing scholars for the United States. Instead of, as heretofore, choosing from the 48 states in two consecutive years and skipping the third year, the scholars will be chosen yearly in future from two-thirds of the states. The sixteen states to be omitted at the 1917 examinations are: California, Washington, Oregon, Colorado, Nebraska, Kansas, Minnesota, Wisconsin, Michigan, Missouri, Iowa, Georgia, Texas, Alabama, Arkansas and Mississippi. From those states scholars will be selected in 1918, and sixteen other states will be omitted.

MARRIAGE AND DIVORCE LAWS

The age at which minors are capable of marrying varies considerably. For males it is 14 in Kentucky, Louisiana, New Hampshire, Rhode Island and Virginia; 15 in Kansas and Missouri; 16 in District of Columbia, Iowa, North Carolina, Texas and Utah; 17 in Alabama, Arkansas and Georgia; 18 in Arizona, California, Idaho, Indiana, Indian Territory,* Michigan, Minnesota, Montana, Nebraska, NewAda, New Mexico, New York, North Dakota, Ohio, Oklahoma, Oregon, South Dakota, West Virginia, Wisconsin and Wyoming; 21 in Washington. The age at which female minors may marry is only 12 in Kansas, Kentucky, Louisiana, Missouri, Rhode Island and Virginia; it is 13 in New Hampshire: 14 in Alabama, Arkansas, Delaware Kentucky, Louisiana, Missouri, Rhode Island and Virginia; it is 13 in New Hampshire; 14 in Alabama, Arkansas, Delaware, Georgia, Iowa, North Carolina, Texas and Utah; 15 in California, Minnesota, New Mexico, North Dakota, Oklahoma, Oregon, South Dakota and Wisconsin; 16 in Arizona, Indiana, Michigan, Montana, Nebraska, Nevada, Ohio, West Virginia and Wyoming; 18 in Idaho, New York and Washington. No are is fixed by create for melacular of for the size of force less in Galland.

Michigan, Montana, Nebraska, Nevada, Ohio, West Virginia and Wyoming; 18 in Idaho, New York and Washington. No age is fixed by statute for males or females in Colorado, Connecticut, Delaware, Florida, Maine, Maryland, Massachusetts, New Jersey, Pennsylvania, Tennessee or Vermont.

The age for males below which parental consent to marriage is required is 16 in Tennessee; 18 in North Carolina and Idaho; 21 in Alabama, Arizona, Arkansas, California (not required if man has been previously married), Colorado, Connecticut, Delaware, District of Columbia, Florida, Indian Territory, Indiana, Iowa, Kentucky, Kansas, Louisiana, Maine (if parent or guardian is living in the state), Maryland, Massachusetts, Minnesota (unless male has been married before), Mississippi, Missouri, Montana, Nebraska, Nevada, New Jersey, New Mexico, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Dakota, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin (who have not married before, and have a parent or guardian residing in the state), and Myoming. Parental consent for males is not required in Georgia, Michigan, New Hampshire or New York. Girls under 16 must have parental consent is required for females in Alabama, Arizona, Arkansas, California (unless applicant has been previously married), Colorado, Delaware, District of Columbia (unless previously married), Georgia, Idaho, Indian Territory, Indiana (except that where parent or guardian does not live in the state, if the girl has resided within the county where license may issue). Iowa. Kansas, Maine (it parents or guardian seen in preceding such application, parents) of the man same in the preceding such application in the state, if the girl has resided within the county where license may issue). Iowa. Kansas, Maine (it parents or guardian seen previously may issue). Iowa. Kansas, Maine (it parents or guardian seen previously may issue). Iowa. Kansas, Maine (it parents or guardian seen previously may issue). Iowa. Kansas, Maine (it parents or guard in the state, if the girl has resided within the county where license may issue, I lowa, Kanasas, Maine (if parents or guardians live in the state), Massachusetts, Michigan (unless married before), Minnesota, Mississippi, Nebraska, Nevada, New Jersey, New Mexico, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, South Dakota, Texas, Utah, Vermont, Washington and Wisconsin (if the person has not had a former husband, and has a parent or guardian residing in the state.) Oregon provides that if either party has no parent or guardian resident in the state, and the female has resided within the county where the license is applied for for the six months next preceding such application, the license may issue, if otherwise proper, without parental consent. Girls below 21 must have parental consent in Florida, Kentucky, Louisana, Montana, Pennsylvania, Rhode Island, Virginia, West Virginia and Wyoming. No parental consent is required for girls in New Hampshire or New York. New York

Kansas has a law which provides that no probate judge shall Kansas has a law which provides that no probate judge shall issue a license authorizing the marriage of any male person under the age of 21, or female person under the age of 18 years, except with the consent of his or her father, mother or guardian, * * * and where such consent shall have been given, no license shall be issued to any male person under 17 or female under 15 without the consent of the probate judge in addition

thereto.

Marriage is prohibited in many states between whites and persons of negro descent, between whites and Indians, between first cousins, and between step-relatives. Some states prohibit the marriage of epileptics and imbeciles. Each state has prohibited degrees of relationship between which marriages are

Divorce is permitted for various causes in all states of the Union except South Carolina, which has no divorce law. Statistics show that there are more divorces in cities than in the countries of the countries

A marriage license is a prerequisite of marriage in all states of territories.

The age at which minors are capable of marrying varies conderably. For males it is 14 in Kentucky, Louisiana, New ampshire, Rhode Island and Virginia; 15 in Kansas and Misquri; 16 in District of Columbia, Iowa, North Carolina, Texas alifornia, Idaho, Indiana, Indian Territory, Michigan, Minnesta, Montana, Nebraska, Nevada, New Mexico, New York, Montana, Nebraska, Nevada, New Mexico, New York, Statistics showing occupations of divorced men place at the country. The lower many movement, although varying in intensity in different sections, has been general throughout the country. Statistics showing occupations of divorced men place at the head of the list actors. Professional showmen, musicians and head of the list actors, professional showmen, musicians and teachers of music, commercial travelers, telegraph and telephone operators, physicians and surgeons; at the end of the list come teamsters, clergymen and agricultural laborers. Figures thus confirm the popular impression that divorce is unusually prevalent among actors

Residence required before applicants can be granted a divorce varies in the different states from six months to five years.

The statutory causes for absolute divorce are summarized as follows:

follows:

Abandonment or desertion: In all states except New York,
District of Columbia, North Carolina, South Carolina.

Refusal to move to state: Tennessee.

Extreme cruelly: In all states except New York, New Jersey,
Pennsylvania, Maryland, District of Columbia, Virginia, West
Virginia, North Carolina, South Carolina, Iowa, Missouri, Alabama, Arkansas, Indian Territory.*

Attempt to take life: Illinois, Tennessee, Louisiana.

Violence endangering life: Pennsylvania, Iowa, Missouri,
Kentucky, Alabama, Arkansas, Indian Territory.*

Indignities and defamation: Pennsylvania, Missouri, Tennessee,
Louisiana, Arkansas, Indian Territory,* Wyoming, Washington, Oregon.

ington, Oregon.

Adultery: In all states except South Carolina.

Crime against nature: Alabama.

Lewd conduct: Kentucky.

Loathsome disease: Kentucky.

Habitual drunkenness: In all states except Vermont, New York, New Jersey, Pennsylvania, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina,

Habitual use of drugs: Maine, Massachusetts, Rhode Island,

Nessessippi.

Neslect to provide: Maine, Vermont, Massachusetts, Rhode Island, Delaware, Indiana, Michigan, Wisconsin, Nebraska, Tennessee, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada, Washington.

Nevada, Washington.
Neglect of duty: Ohio, North Dakota, South Dakota, Kansas,
Oklahoma, Montana, Idaho, California.
Violent temper: Florida, Kentucky.
Intolerant religious belief: New Hampshire, Kentucky.
Conviction or imprisonment for crime: In all states except
Maine, Rhode Island, New York, New Jersey, Maryland,
District of Columbia, North Carolina, South Carolina, Florida.

Fugitive from justice: Virginia, Louisiana.

Duress or force (lack of real consent to marriage): Pennsylvania, Georgia, Kentucky, Washington.

Fraud or fraudulent (marriage) contract: Connecticut, Pennsylvania, South Carolina, Ohio, Kansas, Kentucky, Oklahoma, Washington.

Washington.

Washington.

Mental incapacity: New Jersey, Pennsylvania, Georgia, Mississippi, Indian Territory,* Idaho, Utah, Washington.

Want of age: Delaware.

Impotency or physical incapacity: In all states except Vermont, Connecticut, New York, District of Columbia, South Carolina, Iowa, North Dakota, South Dakota, Louisiana, Texas, Montana, Idaho, California.

Pregnancy before marriage by other than husband: In all states except Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Delaware, Maryland, District of Columbia, South Carolina, Florida, Ohio, Indiana, Illinois, Michigan, Wisconsin, Minnesota, North Dakota, South Dakota, Nebraska, Louisiana, Arkansas, Indian Territory,* Texas, Montana, Idaho, Colorado, Utah, Nevada, Washington, Oregon, California.

Illicit carnal intercourse before marriage: Maryland, Virginia, West Virginia.

West Virginia.

* Since 1907 under the jurisdiction of Oklahoma.

Bigamy: Pennsylvania, Florida, Ohio, Illinois, Missouri, Kansas, Tennessee, Mississippi, Arkansas, Indian Territory,* Oklahoma, Colorado.

Consanguinity: Pennsylvania, Georgia, Florida, Mississippi. Void and voidable marriage (not otherwise specified): Rhode Island, Delaware.

Previous divorce in another state: Florida, Ohio, Michigan. Misconduct: Rhode Island, Wisconsin.

Miscomune: Midde Island, Wisconsin, Vagrancy (includes treatment endangering reason or injuring health): Missouri, Wyoming.
Voluntary separation: Rhode Island, Wisconsin, Kentucky.
Civil death: Rhode Island.

Croil dealn: Rhode Island, Connecticut.

Causes deemed sufficient by court: Washington.

When divorce is refused: In many states divorce is refused where there has been collusion, connivance, condonation or recrimination. It is probably true that in those states in which no mention is made in the statutes of these defenses, a should of any of them would nevertheless be a sufficient ground for

of any of their words are refusing the divorce.

Collusion is an agreement between husband and wife that one of them shall commit, or appear to have committed, or be represented in court as having committed, acts constituting a cause of divorce, for the purpose of enabling the other to obtain

a divorce.

Connivance is the corrupt consent of one party to the commission by the other of the acts constituting the cause of divorce. Condonation is the conditional forgiveness, either express or

implied, of a matrimonial offense constituting a cause of divorce.

Recrimination is a showing by the defendant of any cause of divorce against the plaintiff, in bar of the plaintiff's cause of di-

Illinois, Indian Territory,* Kansas, Kentucky, Massachusetts, Minnesota, Missouri, Nevada, New Hampshire, Ohio, Oklahoma and Rhode Island, when a divorce is granted to a woman her name may be changed to that of a former husband or to her maiden name. In the District of Columbia, Georgia, Maine, Oregon, Washington and Wisconsin such change may be made Oregon, Washington and Wisconsin such change may be made in all cases, whether the woman is plaintiff or defendant. In Michigan, whether plaintiff or defendant, the court may decree to restore the maiden name to a woman, or the name she legally bore prior to her marriage to the husband in the divorce suit, or allow her to adopt another name, except where there is a minor child of the parties. In New Jersey in case of absolute divorce a woman may assume her maiden name provided that she file with the county clerk of the county in which she lives, and the county clerk of the county in which she lived when the divorce was granted, declaration of her intention so to do, and the date on which such change of name is to be made.

was granted, declaration of her intention so to do, and the date on which such change of name is to be made.

In Arizona the wife may change her name, if it is specially prayed for in the pleadings. In Texas the statute provides for the change of name of either party, if such change is specially pleaded. In Delaware the court may change the name of the wife, and of any or all issue born during the marriage. In Vermont the court may allow the woman to assume her maiden name, and may change the names of minor children of divorced parents when application for that purpose is made in the peti-

tion for divorce.

Uniform divorce legislation: For more than 25 years the advisability of securing uniform divorce laws throughout the country has attracted attention. According to the opinion of national legislators and all writers, the Federal Congress can not deal with this matter without an amendment to the Conorce.

stitution, and efforts have therefore been concentrated on seChange of name after divorce: In Arkansas, Connecticut, curing uniform divorce laws under state legislation.

* Since 1907 under the jurisdiction of Oklahoma.

THE ROCKEFELLER FOUNDATION

The Rockefeller Foundation was chartered May 14th, 1913, The Rocketeiler Foundation was chartered May 14th, 1915, in New York City. It was organized for the purpose of receiving and maintaining a fund or funds, and applying the income and principal thereof to promote the well-being of mankind throughout the world. Appropriations are made by the board of directors or the executive committee on the report and band of directors or the executive committee on the report and recommendation of the secretary or any other officer or member of the Foundation. The total funds, securities and other sources of income held December 1st, 1914, amounted to \$103,930,817.19. From the income, \$2,000,000 annually, or as much thereof as he shall designate, shall be applied during the lifetime of John D. Rockefeller to specific objects within the corporate purposes of the Foundation, as he may from time to time direct. Any balance of the \$2,000,000 not thus designated during the fiscal year is transferred to the income of the foundation, to be used as it may see fit.

The major part of the Foundation's work consists in making contributions to other agencies carrying on philanthropic activities. The appropriations are in general made in the form of pledges to particular institutions for definite amounts, and when once made each pledge becomes a contract which is not subject to review by the Foundation. The Foundation has embarked upon the following activities:

The organization of the International Health Commission for a worldwide campaign against the hookworm disease. A representative was sent around the world to visit foreign countries where the greatest infection was known to exist. Upon his

where the greatest infection was known to exist. Upon his recommendations, work was inaugurated to combat the trouble, in British West Indies, Central America, Ceylon, Malay States and the Philippines.

and the Philippines.

The promotion of medical education and public health in China.

Before undertaking this important work, a commission of three persons was sent to China, and after spending four months in that country, made a report of the findings; this in order that the Foundation might proceed intelligently. Its recommendations are now receiving consideration.

The investigation of industrial relations. Having in mind that hardly any relation in life is more far reaching than the industrial relation, and particularly having in view the growing tendency to misunderstanding and lack of harmony between employers and employes, the Foundation feels that if it can work out sound and substantial improvements in the relation of capital and labor, it can hardly do anything better calculated to "promote the well-being of mankind." The inquiry will

not be local or restricted, but the experience of the several countries of the world will be drawn upon.

Belgian Relief. To investigate for the Foundation the efficiency of the distributing organization, a commission of three sailed for Europe November 11, 1914. They reported in highest praise of the activities of the authorities engaged in the relief work. However, as the object was to start a stream of food supplies flowing into Blegium with the least possible delay, the Foundation sent its first ship November 2nd, before the investigating commission started. This yessel contained 28,500 vestigating commission started. This vessel contained 28,500 barrels of flour, 14,000 100-lb. packets of rice, 600,000 pounds of beans, 100,000 pounds of bacon. On a second voyage the ship carried 3,500 tons of food and clothing; another ship carried 4,800 tons of food; another a cargo of wheat. The Foundation spent over \$1,000,000 on ships and cargoes. It also chartered a steamship pier, to facilitate loading of supplies, and furnished ships to carry contributions from other sources.

During the first year of its existence the Foundation pledged \$10,000 a year for ten years to the American Academy in

During the first year of its existence the Foundation pledged \$10,000 a year for ten years to the American Academy in Rome; \$20,000 a year for ten years to the New York Association for Improving the Condition of the Poor, for Widows' Pensions; purchased in Louisiana 85,000 acres on the coast of the Gulf of Mexico at a cost of \$225,000, as a refuge for migratory birds, to prevent wanton destruction of birds, important to agricultural interests in keeping down insect pests, which inflict a loss on the country annually of approximately

\$400,000,000.

\$400,000,000.

During the winter of 1914–1915 the Foundation gave \$45,000 to assist in the relief of the poor in New York.

Other appropriations were: \$750,000 to Wellesley College, because of its extensive fire loss; and \$2,550,000 to the Rockefeller Institute for Medical Research, for addition to land, buildings and endowment. (A physician was sent to Texas by the Institute to instruct the health authorities and private physicians as to the proper method of dealing with epidemic cerebro-spinal meningitis; the new curative serum was administered to hundreds, with resulting decrease of the normal death rate from 75% to less than 25%.)

The annual meeting is held on the Wednesday next preceding the fourth Thursday of January. Stated meetings are held on the Wednesday next preceding the fourth Thursday of May and October in each year.

The office of the corporation is at 61 Broadway, New York.

RULES GOVERNING THE GRANTING OF PASSPORTS

RULES GOVERNING THE O

1. By Whom Issued and Refusal to Issue.—No one but the Secretary of State may grant and issue passports in the United States (Revised Statutes, sections 4075, 4078), and he is empowered to refuse them in his discretion.

Passports are not issued by American diplomatic and consular officers abroad, except in cases of emergency; and a citizen who is abroad and desires to procure a passport must apply therefor through the nearest diplomatic or consular officer to the Secretary of State.

Applications for passports by persons in Porto Rico or the Philippines should be made to the Chief Executives of those islands. The evidence required of such applicants is the same as that required of applicants in the United States.

2. FEE.—By act of Congress approved March 23, 1888, a fee of one dollar is required to be collected for every citizen's passport. That amount in currency or postal money order should accompany each application made by a citizen of the United States. Orders should be made payable to the Disbursing Clerk of the Department of State. Drafts or checks will not be accepted.

3. APPLICATIONS.—A person who is entitled to receive a

will not be accepted.

3. APPLICATIONS.—A person who is entitled to receive a passport, if within the United States, must make a written application, in the form of an affidavit, to the Secretary of State. The application must be made by the person to whom the passport is to be issued and signed by him, as it is not competent for one person to apply for another.

The affidavit must be attested by an officer authorized to administer oaths, and if he has an official seal it must be affixed. If he has no seal, his official character must be authenticated by certificate of the proper level officer.

If he has no seal, his official character must be authenticated by certificate of the proper legal officer.

If the applicant signs by mark, two attesting witnesses to his signature are required. The applicant is required to state the date and place of his birth, his occupation, the place of his permanent residence and within what length of time he will return to the United States with the purpose of residing and performing the duties of citizenship.

The applicant must take the eath of allegiance to the Governer.

The applicant must take the oath of allegiance to the Government of the United States.

ment of the United States.

The application must be accompanied by a description of the person applying, and should state the following particulars, viz.: Age, — years; stature, — feet — inches (English measure); forehead, —; eyes, —; nose, —; mouth, —; chin, —; hair, —; complexion, —; face, —.

The application must be accompanied by a certificate from at least one credible witness that the applicant is the person he represents himself to be, and that the facts stated in the affidavit are true to the best of the witness's knowledge and belief.

4. NATIVE CITIZENS.—An application containing the information indicated by rule 3 will be sufficient evidence in the case of native clitizens; but

mation indicated by rule 3 will be sufficient evidence in the case of native citizens; but
A person of the Chinese race, alleging birth in the United States, must obtain from the Commissioner of Immigration or Chinese inspector in charge at the port through which he proposes to leave the country a certificate upon his application, under the seal of such officer, showing that there has been granted to him by the latter a return certificate in accordance with rule 16 of the Chinese Regulations of the Department of Commerce and Labor. For this purpose special blank forms of application for passports are provided.

Passports issued by the Department of State or its diplomatic computations are presentatives are intended for identification and

Passports issued by the Department of State or its diplomatic or consular representatives are intended for identification and protection in foreign countries, and not to facilitate entry into the United States, immigration being under the supervision of the Department of Commerce and Labor.

5. A PERSON BORN ABROAD WHOSE FATHER WAS A NATIVE CALLED OF THE UNITED STATES.—In addition to the statements required by rule 3, his application must show that his father was born in the United States, resided therein, and was a citizen at the time of the applicant's birth. The Department may require that this affidavit be supported by that of one other citizen acquainted with the facts.

6. NATURALIZED CITIZENS.—In addition to the statements

acquainted with the facts.

6. NATURALIZED CHIZENS.—In addition to the statements required by rule 3, a naturalized citizen must transmit his certificate of naturalization, or a duly certified copy of the court record thereof, with his application. It will be returned to him after inspection. He must state in his affidavit when and from what port he emigrated to this country, what ship he sailed on, where he has lived since his arrival in the United States, when and before what court he was naturalized, and that he is the identical person described in the certificate of naturalization. The signature to the application should conform in orthography

to the applicant's name as written in his certificate of naturalization, or an explanation of the difference should be submitted.

7. WOMAN'S APPLICATION.—If she is unmarried, in addition to the statements required by rule 3, she should state that she has never been married. If she is the wife or widow of a native citizen of the United States the fact should be made to appear in her application which should be made according to the form prescribed for a native citizen whether she was born in this country or abroad. If she is the wife or widow of a naturalized citizen, in addition to the statements required by rule 3 she much country or abroad. If she is the wife or widow of a naturalized citizen, in addition to the statements required by rule 3, she must transmit for inspection her husband's certificate of naturalization, or a certified copy of the court record thereof, must state that she is the wife (or widow) of the person described therein, and must set forth the facts of his emigration, naturalization, and residence, as required in the rules governing the application of a naturalized citizen. A married woman's citizenship follows that of her husband so far as her international status is concerned. It is essential, therefore, that a woman's marrial relations be indicated in her application for a passport, and that in the case of a married woman her husband's citizenship be established.

8. The CHILD OF A NATURALIZED CITIZEN CLAIMING CITIZENSHIP THROUGH THE NATURALIZATION OF THE PARENT.—In addition to the statements required by rule 3, the applicant must state that ne or she is the son or daughter, as the case may be, of the person described in the certificate of naturalization, which must be submitted for inspection, and must set forth the facts

state that he or she is the son or daughter, as the case may be, of the person described in the certificate of naturalization, which must be submitted for inspection, and must set forth the facts of emigration, naturalization, and residence, as required in the rule governing the application of a naturalized citizen.

9. A RESIDENT OF AN INSULAR POSSESSION OF THE UNITED STATES WHO OWES ALLEGIANCE TO THE UNITED STATES.—In addition to the statements required by rule 3, he must state that he owes allegiance to the United States and that he does not acknowledge allegiance to any other government; and must submit affidavits from at least two credible winesses having good means of knowledge in substantiation of his statements of birth, residence and loyalty.

10. Expiration of Passport.—A passport expires two years from the date of its issuance. A new one will be issued upon a new application, and if the applicant be a naturalized citizen, the old passport will be accepted in lieu of a certificate of naturalization, if the application upon which it was issued is found to contain sufficient information as to the naturalization of the applicant. Passports are not renewed by the Department, but a person abroad holding a passport issued by the Department it to a diplomatic or principal consular officer of the United States when it is about to expire.

11. Wiff, Minor Children, and Servants.—When the applicant is accompanied by his wife, minor children, or servant who would be entitled to receive a passport, it will be sufficient to state the fact, giving the respective ages of the children and the allegiance of the servant, when one passport will be required. A woman's passport may include her minor children and servant under the above-named conditions. (The term servant does not include a governess, tutor, pupil, companion, or person holding like relations to the applicant for a passport.

12. Titles.—Professional and other titles will not be inserted in passports.

in passports.

13. Blank Forms of Application.—They will be furnished by the Department to persons who desire to apply for passports, but are not furnished, except as samples, to those who make a business of procuring passports.

14. Address.—Communications should be addressed to the Department of State, Bureau of Citizenship, and each communication should give the post-office address of the person to whom the answer is to be directed.

Section 4075 of the Revised Statutes of the United States, as Section 4075 of the Revised Statutes of the United States, as amended by the act of Congress, approved June 14, 1902, provides that "the Secretary of State may grant and issue passports, and cause passports to be granted, issued, and verified in foreign countries by such diplomatic or consular officers of the United States, and by such chief or other executive officer of the insular possessions of the United States, and under such rules as the President shall designate and prescribe for and on behalf of the United States."

The Secretary of State is authorized to make regulations on the subject of granting and issuing passports additional to these rules and not inconsistent with them.

THE INITIATIVE, REFERENDUM, AND RECALL

THE INITIATIVE

The progress of popular government in this country has been greatest in the advance of the initiative and the referendum. By the former the people are empowered to pass laws and ordinances which the ordinary legislative bodies are powerless to change or modify.

The initiative was first adopted by Switzerland in 1891 and in the United States by South Dakota in 1898. Prior to 1911 ten States provided some method for direct legislation by the ten states provided some method of direct registation by the people. In that year Arizona was admitted as a State with a constitution containing the initiative and the referendum, and California adopted the initiative by constitutional amendment. Since that time it has been adopted by several other States in the adoption of new constitutions or by amendment of the original.

The power of the initiative may extend to the adoption of

The power of the initiative may extend to the adoption of constitutional amendment as well as to the ordinary legislation or it may be restricted to the latter alone.

The petition of from five to twenty-five per cent. of the qualified voters, varying in the different localities, is necessary in order to bring a matter of legislation before the people for vote. The normal is from eight to ten per cent. The majority required for the adoption of any law or ordinance so passed on may be a majority of all the votes cast at the election or a majority of the votes cast for or against the particular measure. The latter method is considered more fair as it has been found The latter method is considered more fair as it has been found almost impossible to secure the adoption of legislative measures by a majority of the total vote cast, from ten to thirty per cent.

by a majority of the total vote cast, from ten to thirty per cent. of the voters at a general election casting their votes for the candidates only and ignoring the petitions.

In the State of Oregon, preceding an election at which a question of legislation is to be submitted, a printed copy of the measure to be voted on is sent to every qualified voter in the State, together with arguments favoring its adoption prepared by its proponents and arguments opposing it prepared by such citizens who may desire its defeat.

In competion with the commission form of municipal govern-

In connection with the commission form of municipal govern-In connection with the commission form of municipal government the ordinance proposed is submitted to the Board of Commissioners by a certain percentage of the qualified voters or a percentage of the total vote cast at the last preceding municipal election. If it so desires the Board can take the initiative and pass the proposed ordinance or submit it at a general or special election to the voters. Usually, in order to hold a special election a petition signed by twenty-five per cent. of the voters is required; for a general election the number usually is ten percent. usually is ten per cent.

NEW STANDARD BARREL

An Act of Congress, approved March 4, 1915, requires that the standard barrel for fruits, vegetables, and other dry commodities other than cranberries shall be of the following dimensions when measured without distention of its parts: Length of stave, 28½ inches; diameter of heads, 17 1-8 inches; distance between heads, 26 inches; circumference of bulge, 64 inches, outside measurement; and the thickness of staves not greater than 4-10 of an inch: Provided, That any barrel of a different form having a capacity of 7,056 cubic inches shall be a standard barrel. The standard barrel for cranberries shall be of the following dimensions when measured without distention of its parts: Length of staves, 28½ inches; diameter of head, 16½ inches; distance between heads, 25½ inches; circumference of bulge, 58½ inches, outside measurement; and the thickness of staves not greater than 4-10 of an inch.

After the first day of July, 1916 it will be unlawful to sell, offer, or expose for sale in any State, Territory, or the District of Columbia, or to ship from any State, Territory, or the District of Columbia to any other State, Territory, or the District of Columbia or to a foreign country, a barrel containing fruits or vegetables or any other dry commodity of less capacity than the standard barrels defined above, or subdivisions thereof known as the third, half, and three-quarters harrel. Any person guilty of a willful violation of any of the provisions of this Act shall be deemed guilty of a misdemeanor and be liable to a fine or imprisonment. No barrel shall be deemed below standard when shipped to any foreign country and constructed according to the svecifications or directions of the foreign numer.

to a mile or imprisonment. No parrel shall be deemed below standard when shipped to any foreign country and constructed according to the specifications or directions of the foreign purchaser if not constructed in conflict with the laws of the foreign country to which the same is intended to be shipped.

Reasonable variations shall be permitted and tolerance shall be established by rules and regulations made by the Director of the Bureau of Standards.

in amending measures initiated by petition. The law or ordinance must be adopted as it stands or a delay of two years or more ensues while a suitable law is being framed. THE REFERENDUM

The chief difficulty in the use of the initiative has been found

The referendum is the submission of proposed laws or ordiances, already passed by a legislative body or council, to a vote by the people for ratification. The idea is of ancient origin, having been used in Switzerland since the sixteenth century. In this country it has come into wide use since 1898, especially in connection with the initiative, as a means of direct

The method of procedure is practically the same as in the initiative, the number of signers to a petition being generally

from five to twenty-five per cent.

The referendum has been adopted both for State and municipal use and obtains in almost every Commission-ruled city.

THE RECALL

The recall is the means by which the people, at will, may retire a regularly elected officer of their government if he has ceased to have the confidence of the voters.

It is in use in many cities and was adopted by the State of Oregon in 1908. In 1911 Arizona applied for admission as a State presenting a constitution including among other features State presenting a constitution including among other features of popular government the power of recall, extending to the judiciary as well as to the executive and legislative officers. President Taft vetoed the bill of admission on that account and when Arizona was finally admitted the power of recall was restricted so that it would not include judicial officers.

Local recall has spread widely with the adoption of the Commission form of City Government and has been put to some use. The general rule requires that the petitioners for recall form twenty-rive per cent of the total number of those voting for all candidates at the last preceding election. In a Commission

candidates at the last preceding election. In a Commission governed city from fifteen to seventy-five per cent. of the total voters is required though the number is usually twenty-five

The official whose recall is petitioned for may be a candidate, and, unless he receives the highest vote at the election, he is.

without further action, removed from office.

In some charters it has been deemed prudent to provide for a period directly following the election of a public officer when he shall be immune from the power of the recall.

UNITED STATES FLAG REGULATIONS The following rules concerning the Flag have been formulated by the Sons of the Revolution.

It should not be hoisted before sunrise nor allowed to remain

It should not be hoisted before sunrise nor allowed to remain up after sunset.

At "retreat," sunset, civilian spectators should stand at "attention" and uncover during the playing of the "Star-Spangled Banner." Military spectators are required by regulation to stand at "attention" and give the military salute. During the playing of the national hymn at "retreat" the flag should be lowered, but not then allowed to touch the ground.

When the national colors are passing on parade or in review, the spectator should, if walking, halt, and if sitting, arise and stand at attention and uncover.

When the national land State or other flags fly together, the national flag should be placed on the right.

When the national and State or other flags fly together, the national flag should be placed on the right.

When the flag is flown at half staff as a sign of mourning, it should be hoisted to full staff at the conclusion of the funeral. In placing the flag at half staff, it should first be hoisted to the top of the staff and then lowered to position, and preliminary to lowering from half staff, it should be first raised to the top. The national salute is one gun for every State. The international salute is, under the law of nations, twenty-one

The days on which the national emblem should be shown at The days on which the national emblem should be shown at full mast are: Lincoln's Birthday, February 12; Washington's Birthday, February 22; anniversary of the battle of Lexington, April 19; Memorial Day, May 30; Flag Day, June 14; anniversary of the battle of Bunker Hill, June 17; Independence Day, July 4; the anniversary of the battle of Saratoga, October 17; the surrender of Yorktown, October 19, and Evacuation Day, November 25. A footnote says: "On Memorial Day, May 30, the flag should fly at half staff from sunrise to noon, and full staff from roun to survey." and full staff from noon to sunset.

READY REFERENCE CALENDAR FOR 200 YEARS FOR ASCERTAINING ANY DAY OF THE WEEK FOR ANY GIVEN TIME WITHIN TWO HUNDRED YEARS FROM THE INTRODUCTION OF THE NEW STYLE, 1752,† TO 1952 INCLUSIVE.

										200	1210	400	X V L									
			СОММ	ON Y	EARS,	RS, 1753 TO 1951.						Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1761 1801	1767 1807	1778 1818		1795 1835	1846	1857 1903	.1863 1914	1874 1925	1885 1931	1891 1942	4	7	7	3	5	1	3	6	2	4	7	2
1762 1802	1773 1813	1779 1819		1841	1847	1858 1909	1869 1915	1875 1926	1886 1937	1897 1943	5	1	1	4	6	2	4	7	3	5	1	3
1757 1803	1763 1814	1774 1825		1791 1842	1853	1859 1910	1870 1921	1881 1927	1887 1938	1898 1949	6	2	2	5	7	3	5	1	4	6	2	4
1754 1805	1765 1811	1771 1822		1793 1839	1799 1850 1901	1861 1907	1867 1918	1878 1929	1889 1935	1895 1946	2	5	5	1	3	6	1	4	7	2	5	7
1755 1806	1766 1817	1777 1823		1794 1845	1800 1851 1902	1862 1913	1873 1919	1879 1930	1890 1941	1947	3	6	6	2	4	7	2	5	1	3	6	1.
1758 1809	1769 1815	1775 1826		1797 1843	1854 1905	1865 1911	1871 1922	1882 1933	1893 1939	1899 1950	7	3	3	6	1	4	6	2	5	7	3	5
1753 1810	1759 1821	1770 1827	1781 1838	1787 1849	1798 1855	1866 1906	1877 1917	1883 1923	1894 1934	1900 1945 1951	1	4	4	7	_2	5	7	3	6	1	4	6
/			I.EAF	YEA	RS, 17	56 TO	1952.			2702		29										
1764	17	92	1804	1832	1	860	1888			1928	7	3	4	7	2	5	7	3	6	1	4	6
1768	17	96	1808	1830	5 1	864	1892	190	4	1932	5	1	2	5	7	3	5	1	4	6	2	4
1772			1812	1840) 1.	868	1896	190	8	1936	3	6	7	3	5	1	3	6	2	4	7	2
1776	* .	·	1816	184		872		191		1940	1	4	5	1	3	6	1*	4	7	2	5	7
1780	\rightarrow		1820	1848	_	876	••	191		1944	6	2	3	6	1	4	6	2	5	7	3	5
1756		84	1824	1852		880		192		1948	4	7	1	4	6	2	4	7	3	5	1	3
1760	17	88	1828	1856	18	884	• •	192	4 .	1952	2	5	6	2	4	7	2	5	1	3	6	1

Note.—To ascertain any day of the week, first look in the table for the year required, and under the months are figures which refer to the corresponding figures at the head of the columns of days below. For Example:—To know on what day of the week July 4 fell in the year 1776, in the table of years look for 1776 (a Leap Year), and in a parallel line, under July, is fig. 1, which directs to col. 1, in which it will be seen that July 4 fell on Thursday.

1*		. 2		3		4		5		6		7	
Monday	1	Tuesday	1	Wednesday	1	Thursday	1	Friday	1	Saturday	1	Sunday	1
Tuesday	2	Wednesday	2	Thursday	2	Friday	2	Saturday	2	Sunday	2	Monday	- 2
Wednesday	3	Thursday	3.	Friday	3	Saturday	3	Sunday	3	Monday	3	Tuesday	3
Thursday*	4	Friday	4	Saturday	4	Sunday	4	Monday	4	Tuesday	4	Wednesday	4
Friday	5	Saturday	5	Sunday	5	Monday	5	Tuesday	5	Wednesday		Thursday	5
Saturday	6	Sunday	6	Monday	6	Tuesday	6	Wednesday	6	Thursday	6	Friday	6
Sunday	7	Monday	7	Tuesday	7	Wednesday		Thursday	7	Friday	7	Saturday	- 7
Monday	8	Tuesday	8	Wednesday	8	Thursday	8	Friday	8	Saturday	8	Sunday	8
Tuesday	9	Wednesday	9	Thursday	9	Friday	9	Saturday	9	Sunday	9	Monday	9
Wednesday	10	Thursday	10	Friday	10	Saturday	10	Sunday	10	Monday	10	Tuesday	10
Thursday	11	Friday	11	Saturday	11	Sunday	11	Monday	11	Tuesday	11	Wednesday	
Friday	12	Saturday	12	Sunday	12	Monday	12	Tuesday	12	Wednesday		Thursday	12
Saturday	13	Sunday	13	Monday	13	Tuesday	13	Wednesday		Thursday	13	Friday	13
Sunday	14	Monday	14	Tuesday	14	Wednesday	14	Thursday	14	Friday	14	Saturday	14
Monday	15	Tuesday	15	Wednesday	15	Thursday	15	Friday	15	Saturday	15	Sunday	15
Tuesday	16	Wednesday	16	Thursday	16	Friday	16	Saturday	16	Sunday	16	Monday	16
Wednesday		Thursday	17	Friday	17	Saturday	17	Sunday	17	Monday	17	Tuesday	17
Thursday	18	Friday	18	Saturday	18	Sunday	18	Monday	18	Tuesday	18	Wednesday	
Friday	19	Saturday	19	Sunday	19	Monday	19	Tuesday	19	Wednesday	19	Thursday	19
Saturday	20	Sunday	20	Monday	20	Tuesday	20	Wednesday		Thursday	20	Friday	20
Sunday	21	Monday	21	Tuesday	21	Wednesday	21	Thursday	21	Friday	21	Saturday	21
Monday	22	Tuesday	22	Wednesday	22	Thursday	22	Friday	22	Saturday	22	Sunday	22
Tuesday	23	Wednesday	23	Thursday	23	Friday	23	Saturday	23	Sunday	23	Monday	23
Wednesday		Thursday	24	Friday	24	Saturday	24	Sunday	24	Monday	24	Tuesday	24
Thursday	25	Friday	25	Saturday	25	Sunday	25	Monday	25	Tuesday	25	Wednesday	
Friday	26	Saturday	26	Sunday	26	Monday	26	Tuesday	26	Wednesday	26	Thursday	26
Saturday	27	Sunday	27	Monday	27	Tuesday	27	Wednesday		Thursday	27	Friday	27
	28	Monday	28	Tuesday	28	Wednesday	28	Thursday	28	Friday	28	Saturday	28
	29	Tuesday	29	Wednesday	29	Thursday	29	Friday	29	Saturday	29	Sunday	29
	30		30	Thursday	30	Friday	30	Saturday	30	Sunday	30	Monday	30
Wednesday		Thursday	31	Friday	31	Saturday	31	Sunday	31	Monday	31	Tuesday	31

† 1752 same as 1772 from Jan. 1 to Sept. 2. From Sept. 14 to Dec.

THE NET WEIGHT LAW

The so called net weight law compels manufacturers to make a clear statement of the weight, volume or contents of their packages of food. Regulations for carrying out this law have been drawn up by the Treasury, Agriculture and Commerce De-partments. These regulations apply to foods shipped in inter-state commerce or sold in the District of Columbia or the terri-

The regulations in general require that the manufacturers of foods shall plainly mark all packages, bottles or other containers holding more than two ounces avoirdupois, or more than one fluid ounce, to show the net weight or volume of the con-

The measure must be stated in avoirdupois pounds and ounces Inte measure must be stated in avoirdupois pounds and ounces, United States gallons, quarts, pints or fluid ounces. United States standard bushels, half bushels, pecks, quarts, pints or half pints. The contents by a like method may be expressed in terms of metric weight or measure. The volume of liquids must be computed at 68 degrees Fahrenheit.

'The quantity stated on the container must represent the actual quantity of food exclusive of wrappings and container.

In general, solids must be stated in terms of weight and liquids in terms of volume except where there is a definite trade custom; otherwise any marking of the packing, in terms that are generally understood to express definite quantities, will be per-

The quantity of viscous or semi-solid food or of mixtures of solids and liquids may be stated either by weight or measure, but the statement must clearly indicate whether the quantity is expressed in terms of weight or measure.

In the case of certain articles the contents may be stated by numerical count, provided such numerical count gives accurate information as to the quantity of food in the package. Under this requirement it would not be enough to state that a package

of candy contained 24 cream peppermints, as candies vary in size, and this would not be a statement of the actual quantity of candy in the package.

The regulations also permit the statement of minimum vol-ume or weight as: "minimum weight 12 ounces," No varia-tions below the stated minimum quantity will be permitted.

The statement of weight or measure must be marked in terms

The statement of weight or measure must be marked in terms of the largest unit contained in the package; for example, if the package contains a pound and a fraction, the contents must be expressed in terms of pounds and fractions thereof, or pounds and ounces.

In the packing and bottling of many foods it would be impossible or else add unnecessarily to cost for the manufacturer to place an absolutely accurate statement of the amount of the food in every package and for this reason the regulations permit tolerances or variations in packages where the discrepancies are due exclusively to unavoidable errors in weighing, measuring or counting which occur in packing conducted in compliance with good commercial practice.

This tolerance is allowed in order to permit the use of weighing

This tolerance is allowed in order to permit the use of weighing and measuring machines which, like human operators cannot weigh or measure with absolute accuracy every package. The weign or measure with ansonite accuracy every package. The regulations, however, provide that a run of such packages must show as may cases of overweight and as much excess as it does cases of underweight or undervolume.

cases of underweight or undervolume.

Similarly in the case of bottles which cannot be blown with absolute accuracy, tolerances are allowed, but with the same proviso that the run of bottles must show as much excess in volume as deficiency in volume. Queer shaped bottles must not show greater discrepancies than standard round or square bottles of the same capacity. This means that a manufacturer who uses some special bottle of odd shape cannot claim a greater variation because of the difficulty of blowing or manufacturing such a bottle or container. such a bottle or container.

UNITED STATES BANKRUPTCY LAW

The United States Bankruptcy Act was passed in July, 1898, and amended in 1903, 1906 and 1910.

Important sections are:
Sec. 4. Who may become bankrupts: a—Any person, except
a municipal, railroad, insurance, or banking corporation, shall
be entitled to the benefits of this act as a voluntary bankrupt. be entitled to the benefits of this act as a voluntary bankrupt.

—Any natural person (except a wage-carner or a person engaged chiefly in the farming or the tillage of the soil), any unincorporated company, and any moneyed business or commercial corporation, except a municipal, railroad, insurance, or banking corporation, owing debts to the amount of \$1,000, or over, may be adjudged an involuntary bankrupt upon default or an impartial trial, and shall be subject to the provisions and entitled to the benefits of this act.

The hankrupter of a corporation shall not release its officers.

or an impartial trial, and shall be subject to the provisions and entitled to the benefits of this act.

The bankruptcy of a corporation shall not release its officers, directors or stockholders, as such, from any liability under the laws of a state or territory or of the United States.

Sec. 7. Duties of bankrupts—(a) The bankrupt shall (1) attend the first meeting of his creditors, if directed by the court or judge thereof to do so, and the hearing upon his application for a discharge, if filed; (2) comply with all lawful orders of the court; (3) examine the correctness of all proofs of claims filed against his estate; (4) execute and deliver such papers as shall be ordered by the court; (5) execute to his trustee transfers of all his property in foreign countries; (6) immediately inform his trustee of any attempt by his creditors or other persons to evade the provisions of this act coming to his knowledge; (7) in case of any person having to his knowledge proved a false claim against his estate, disclose that fact immediately to his trustee; (8) prepare, make oath to, and file in court within ten days, unless further time is granted after the adjudication of an involuntary bankrupt, a schedule of his property, showing the amount and kind of property, the location thereof its money value in detail, and a list of its creditors, showing their residences, if known (if unknown that fact to be stated), the amount due each of them, the consideration thereof, the security held by them, if any, and a claim for such exemptions as he may be entitled to, all in tripli-

cate, one copy of each for the clerk, one for the referee and one for the trustee; and (9) when present at the first meeting of his creditors, and at such other times as the court shall order, submit to an examination concerning the conducting of his business, the cause of his bankruptcy, his dealings with his creditors and other persons, the amount, kind and whereabouts of his property, and in addition, all matters which may affect the administra-

erty, and in addition, all matters which may affect the administration and settlement of his estate; but no testimony given by him shall be offered in evidence against himin any criminal proceedings. Provided, however, that he shall not be required to attend a meeting of his creditors, or at or for an examination at a place more than 150 miles distant from his home or principal place of business, or to examine claims except when presented to him, unless ordered by the court, or a judge thereof, for cause shown, and the bankrupt shall be paid his actual expenses from the estate when examined or required to attend at any place other than the city town or village of his recidence. penses from the estate when examined or required to attend at any place other than the city, town or village of his residence. Discharge in bankruptcy relieves the bankrupt from all his provable debts, except taxes due the U. S., state, county or municipality in which he resides, liabilities for money or property obtained by false pretences, willful and malicious injury to persons or property, alimony, debts created by fraud or mis-

persons 6. Property, appropriation, etc.
Sec. 17. Debts Not Affected by a Discharge.—A discharge in bankruptey shall release a bankrupt from all of his provable in bankruptey shall release a bankrupt from all of his provable. debts, except such as (1) are due as a tax levied by the United States, the State, county, district, or municipality in which he resides; (2) are liabilities for obtaining property by false pretenses or false representations, or for willful and malicious tenses or false representations, or for willful and malicious injuries to the person or property of another, or for alimony due or to become due, or for maintenance or support of wife or child, or for seduction of an unmarried female, or for criminal conversation; (3) have not been duly scheduled in time for proof and allowance, with the name of the creditor if known to the bankrupt, unless such creditor had notice or actual knowledge of the proceedings in bankruptcy; or (4) were created by his fraud, embezzlement, misappropriation, or defalcation while acting as an officer or in any fiduciary capacity.

STATUTORY	WEIGHTS	OF	THEFT	DITETTET	TAT	DOINING

STATUTORY WEIGHTS OF THE BUSHEL IN POUNDS																				
	Apples	Apples, dried	Beets	Buckwheat	Corn in ear, husked	Corn, shelled	Corn meal	Malt	Oats	Onions	Peaches	Dried peaches,	Peas	Potatoes	Sweet potatoes	Rye	Saft	Fine salt	Timothy seed	Turnips
United States. Alabama Arizona Arkansas California	50	24		48 52 40	70	56	48	34	32 32 32 32 32 32	57		38	60	60	55	56 56 56 56 56 54	50		60	55
Colorado	48	25 24	60	52 48 	70	56	50 50 48		32 32 	57 52 56	54	33	60	60	54	56 56 	80	50	45	54
Georgia. Hawaii. Idaho* Illinois.		24 24 25		52 52 50	70 70 70	56	48	38	32 32 32	57		38	60		55	56 56		55	45 45	55
Indiana Iowa Kansas Kentucky Louisiana Maine	48 48 48	24 24 24 24	56 56	52 50 56 48	70 70	56 56 56	50 50 50	35	32 32 32 32 32	48 57 57 57 57	48 48	39	60 60	60 60 60 60	55 46 50 55	56 56 56 32 50	80 80 50	55	45 45 45 45	55 55 55 60
Maryland Massachusetts Michigan Minnesota Mississippi	48 48 50	28 25 22 28 26	60	48 48 50 48	70 70 70 70 72	56 50 56 56 56	48 50 50	34	32 32 32 32 32 32	57 52 54 52 57	40 48	33 28 28 33	60 60 60 60 60	60 60	60 54 56 55 60	56 56 56 56 56	56	56 50	45 45 45 45 45	60 55 58
Missouri	48 45 48 48 48	24 24 24 25	50 56 60	52 52 52 50 48	70 70	56 56 56 56	50 50 50 48 50	38 30 30 32	32 32 32 32 32 32	57 57 57 57 57 52	48 48 48	33	60 60 60 60 60	60 60 60	56 50 50 54	56 56 56 56 56	50	50	45 45 45 45 45	50 55 56 55
New Jersey	50 48 48 50	25 25	60	50 48 50 42	70 70	56	50 48		30 32 32 32 32	57 57 57 57 52	50	13 33	60 60 60 60	56	54 56 46	56 56 56 56	80	56	45 45 45 45	50 60
Ohio Oklahoma Oregon Pennsylvania	50 48 45	24 24 28	56 60	50 52 42 48	68 70	56 56	50	34 38	32 32 32 32 32	55 57 50	48 48	33 28 	60	60 56	50 55	56 56 56 56	80	62	45 45	60 00
Rhode Island South Carolina South Dakota Tennessee	48 50	25	50. 60 50	48 42 50	70 70 70	56 56 56	50 48	38	32 32 32 32	50 52 56	48 50	33	60 60 60		54 46 50	56 56 56	80 50	50	45 42 45	50 60 50
Texas. Utah Vermont. Virginia.	45 46 45	28	60	42	70	56	50	38	32 32 30	57 52 57	50	28	60	60	55	56 56 56			45 45 45	55 60 55
Washington	45 50	28 25 25	50	42 52 50			50	34	32 32 32	57		28 33 33	60	60 60 60	54	56 56 56		50	45 45	42

^{*}Idaho law repealed in 1905.

Where State laws have been passed the bushel weights of the following products are uniform with the exceptions noted:
Beans, 60 pounds, except Arizona 55, and Vermont 62.
Flaxseed, 56 pounds, except Connecticut, Massachusetts, New Jersey, New York, North Carolina, each 55.
Hempseed, 44 pounds, except Minnesota 50, and Nevada 48.
Coarse Salt, 70 pounds, except Illinois 50, and Pennsylvania 85.
Clover seed, 60 pounds, except New Jersey 64. Bran, 20 pounds.
Timothy seed, 45 pounds, except Arkansas 60, and South Dakota 42.
Maize, 56 pounds, except California 52.
Millet, 50 pounds, except Minnesota 48.
Wheat, 60 pounds.

WEIGHTS AND MEASURES

		D.F
LINEAR ME	CASURE	MEASURES OF WEIGHT
12 in. = 1 foot. 320	rods = 1 mile.	10 milligrams $(mg.)$ = 1 centigram $(cg.)$ = 0.1543 grain. 10 centigrams = 1 decigram $(dg.)$ = 1.5432 grain.
3 ft. = 1 yard. 5,280) rods = 1 mile.) feet = 1 mile. 3 miles = 1 league.	10 centigrams = 1 decigram $(dg.)$ = 1.5432 grain. 10 decigrams = 1 gramme $(grm.)$ = 15.4323 grain.
3 ft. =1 yard. 5,280 5½ yds. =1 rod. 3	miles = 1 league.	10 decigrams = 1 gramme $(grm.)$ = 15.4323 gram. 10 grammes = 1 dekagram $(dag.)$ = 5.6438 drams.
The hand (4 in.) is used to me	easure norses neights. The	10 centigrams = 1 decigram (ag.) = 1.3432 grain. 10 decigrams = 1 gramme (grm.) = 15.4323 grain. 10 grammes = 1 gramme (grm.) = 15.4323 grain. 10 decigrams = 1 dekagram (dag.) = 5.6438 drams. 10 hectograms (hg.) = 3.5274 oz. 10 kilograms = 1 kilogram (kg.) = 2.204622 lbs. 10 kilograms = 1 myriagram = 1.5747 stones. 10 myriagrams = 1 quintal (q.) = 1.9684 cwt. 10 quintals = 1 tone (l.) = 0.9842 ton.
nautical mile is 6,086.44 ft. 1 k	not is 1.1528 statute mues.	10 hectograms -1 VII OCRAM (hg) = 2.204622 lbs.
1 degree is 67.168 statute miles.		10 kilograms = 1 myriagram = 1.5747 stones.
COTTABE ME	ACTIDE	10 myriagrams =1 quintal (q.) = 1.9684 cwt.
SQUARE ME	sq. rods = 1 acre.	10 quintals = 1 tonne (t.) = 0.9842 ton.
144 sq. in. = 1 sq. ft. 160 9 sq. ft. = 1 sq. yd. 640	acres = 1 sq. mile.	
30 1/4 sq. yds. = 1 sq. rod.	acres — r sq. mnc.	MEASURES OF CAPACITY 10 millilitres (mil.) = 1 centilitre (cl.) = 0.0704 gill.
The side of a square having an are	ea of an acre is approximately	10 centilitres =1 decilitre $(dl.)$ = 0.1759 pint.
20834 feet.	on or all acro is approximately	10 centilitres = 1 decilitre (d.) = 0.1752 pint. 10 decilitres = 1 tecllitre (d.) = 0.1752 pint. 10 litres = 1 tecllitre (d.) = 0.8799 quart. 10 litres = 1 dekalitre (d.) = 2.1997 galls. 10 dekalitres = 1 hectolitre (hl.) = 2.7497 bushels.
STIPVEVORS' X	MEASURE	10 litres = 1 dekalitre (dal.) = 2.1997 galls.
7.92 inches = 1 link, 10 25 links = 1 rod, 1	sq. chains or 160 sq. rods =	10 dekalitres = 1 hectolitre (hl.) = 2.7497 bushels.
25 links = 1 rod. 1	l acre.	MEASURES OF LAND
4 rods = 1 chain. 640	acres = 1 sq. mile.	100 sq. metres = 1 are (a_1) = 0.0988 rood.
30	sq. mnes (o mnes sq.) - 1	100 sq. metres = 1 are (a.) = 0.0988 rood. 100 ares = 1 hectare (ha.) = 2.4711 acres.
to	ownship.	TOU ALCO — I HOURAL (NO.) — 2.1711 WOLLS.
MEASUREMENT	OF LAND	METRIC MULTIPLES FOR CONVERSION
		To Convert
320 rods	1 mile	Grains to grammes
66 feet	1 chain	Ounces to grammes. 28.35 Pounds to grammes. 453.6 Pounds to kilograms. 453.6
10 chains	1 furlong	Pounds to kilograms
80 chains	1 mile	
5,280 feet	1 mile	Tons to kilograms
40 sq. rods	1 rood	Grammes to grains
43,560 square feet	i acre	Grammes to ounces
1 mile square	,	Kilograms to ounces
16 ½ feet. 320 rods. 66 feet. 10 chains. 80 chains. 5,280 feet. 40 sq. rods. 43,560 square feet. 1 mile square. 660 feet square. 208 feet and 8 ½ inches square. 933 feet and 4 ½ inches square.	10 acres	Tons to kilograms. " " 1016. Grammes to grains. " " 1.5.4 Grammes to ounces. " " 0.35 Kilograms to ounces. " " 35.3 Kilograms to pounds. " " 2.3
208 feet and 8 1/2 inches square	1 acre	KHOEFAIRS LO CWLS
933 feet and 41/2 inches square	25 acres	Kilograms to tons
CUBIC ME	SASURE	Inches to centimetres
1,728 cu. in. = 1 cu. ft. 67.2 27 cu. ft. = 1 cu. yd. 268	2 cu. in. = 1 qt. dry meas.	Feet to metres
		raius to metres,
DRY MEA 2 pints = 1 quart. 4 p 8 quarts = 1 peck.	SURE	Yards to knometres
2 pints = 1 quart. 4 p	ecks = 1 hushel.	3.5'll' and the first the
a print a damen Th	- A DUSTION	Millimetres to inches " " .04
8 ouarts = 1 peck.		
- 1		Millimetres to inches
LIOUID ME	ASURE	Centimetres to inches
LIOUID ME	ASURE	Centimetres to inches
LIQUID ME 4 gills = 1 pint. 313 2 pints = 1 quart. 2	ASURE	Metres to yards. " 1.1 Kilometres to yards. " 193.6 I Vard = 0 0144 metre. 1 Sa Metre = 1 106 sa vd.
- 1	ASURE	Metres to yards. " 1.1 Kilometres to yards. " 193.6 I Vard = 0 0144 metre. 1 Sa Metre = 1 106 sa vd.
LIQUID ME 4 gills = 1 pint. 31; 2 pints = 1 quart. 2 4 quarts = 1 gallon.	ASURE 25 gallons = 1 barrel. barrels = 1 hogshead.	Metres to yards. " " 1.1 Kilometres to yards. " " 1093.6 1 Yard = 0.9144 metre. 1 Sq. Metre = 1.196 sq. yd. 1 Litre = 1.760 Pints or 0.22 Gals.
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MEASURES OF TEMPERATURE

Variations of temperature are measured by thermometers, which are graduated on three different systems, viz.:— The British, or Fahrenheit thermometer. The Centigrade, or Celsius thermometer.

The Rea	umur thermo	meter.		Turnentine 79	Cedar
Reaumur	Centigrade	Fahrenheit		Turpentine	Walnut 67
80	100	212	777 4 3 17 4 7	Wine100	Cherry72
76	95		Water boils at sea-level.	Urine101	Maple 75
72		203		Cider102	Ash 84
	90	194		Beer102	Beech 85
68	85	185		Cow's milk103	Mahogany106
63.1	78.9	174	Alcohol boils.	Goat's "104	Oak117
60	75	167		Porter104	Ebony133
56	70·	158		SUNDRIES Per cent.	METALS Per cent.
52	65	149	White of egg coagulates	Indigo	Aluminum
48	60	140	20 0	Ice 92	Zinc
44	55	131		Gunpowder93	Cast Iron721
42.2	52.8	127		Butter 94	Tin
40	50	122		Clay	Steel
36	45	113	Tallow melts.	Coal	D
33.8	42.2	108	Zumon montas	Opium 124	Brass800
32	40	104		Opium	Copper895
29,3	36.7	98	Blood heat.	Honey145	Silver1,047
28	35	95	Diood neat.	Ivory	Lead
25.8	32.2	. 90		Sulphur	Mercury
24	30	86		Marble	Gold1,926
21.3	26.7	80 80		Glass289	Platinum
20	25			To find the weight of a cubic f	oot, multiply 62,321 lbs, by the
16		77	m .	specific gravity. To find the nur	mber of cubic feet in one ton
	20	68	Temperate.	divide 35.943 by the specific grav	vitv.
12.4	15.3	60			
10.2	12.8	55		STONE AND I	
8	10	50		A perch of stone is 24.75 cubic	feet. When built in the wall.
5.8	7.2	45		234 cubic feet are allowed for t	he mortar and filling; hence.
4	5	41		22 cubic feet of stone make one r	perch of wall.
1.3	1.7	35		Masons estimate 3 pecks of lin	ne and 4 bushels of sand to a
0	0	32	Water freezes.	perch of wall.	
0.9	1.1	30		To find the number of perche	s of stone in a wall, multiply
4	— 9	23		together the length, height, and	
5.3	6.7	20		by 22.	
8	10	14		Common bricks are 71/4 to 8 in	nches long by 41/2 inches wide
9,8	-12.2	10		and 21/2 inches thick. Front brick	
12	15	5		It requires 20 common bricks	
14.2	17.8	Õ	Zero Fahr.	8-inch wall 15 common bricks ma	
16	-20	4	2000 2 00010	Material Required for Buildings	
20	-25	13		-	
24	30	22		WOOD AND LUM	
28	35	31		A cord of wood contains 128	cubic feet. To ascertain how
32	-40	-40	Mercury freezes.	many cords there are in a pile of	wood, multiply the length by
34	40	-40	intercuty freezes.	the height, and that by the width,	and divide the product by 128.
To chan	ge from cent	tigrade to Fa	hrenheit multiply by 9,	To ascertain the circumference	
divide by 5	and add 32.	To change	from Reaumur to Fahren-		
heit multin	ly by 9. divi	de by 4 and a	dd 32.	the given side of the square by	
zacat, zacatoj	-5 -5 -5 -6-11			circumference required.	

MINIMUM WEIGHTS OF PRODUCE

The following are minimum weights of certain articles of produce according to the laws of the United States:

Per Bu. Wheat 60 lbs. Corn, in the ear 70 " Corn, shelled 56 " Rye. 56 " Buckwheat 48 " Barley 48 " Oats 32 " Peas 60 " White beans 60 " White potatoes 60 " White potatoes 56 " Sweet potatoes 57 "	Per Bu. Per Bu. 33 lbs. Dried paches 33 lbs. Dried apples 26 " Clover seed 60 " Flax seed 55 " Millet seed 50 " Hungarian grass seed 50 " Timothy seed 45 " Blue grass seed 44 " Hemp seed 44 " Salt (see note below). Corn meal 48 " Ground peas 24 " Malt 34 " Malt 34 " Malt 34 " Malt 34 " Malt 36 " Corn meal 34 " Malt 34 " Malt 34 " Malt 34 " Malt 36 " Malt Malt
	Malt34 " Bran20 "

SALT.—Weight per bushel as adopted by different states ranges from 50 to 80 pounds. Coarse salt in Pennsylvania is reckoned at 80 pounds, in Kentucky and Illinois at 50 pounds per bushel. Fine salt in Pennsylvania is reckoned at 62 pounds, in Kentucky and Illinois at 55 pounds per bushel.

SPECIFIC	GRAVITY	
LIQUIDS Per cent.	TIMBER	Per cent.
Water100	Cork	24
Sea-water103	Poplar	38
Dead Sea124	Fir	
Alcohol	Cedar	
Turpentine	Walnut	67
Wine100	Cherry	
Urine101	Maple	
Cider102	Ash	
Beer102	Beech	04
Cow's milk103	Mahogany	
Goat's "104	Oak	117
Porter104	Ebony	
	жий у	100
SUNDRIES Per cent.	METALS '	
Indigo 77	Aluminum	267
Indigo	Aluminum Zinc	719
Indigo	AluminumZincCast Iron	719 721
Indigo. 77 Ice. 92 Gunpowder. 93 Butter. 94	Aluminum Zinc Cast Iron Tin	267 719 721 729
Indigo. 77 Ice. 92 Gunpowder. 93 Butter. 94 Clay. 120	Aluminum Zinc Cast Iron Tin Steel	267 719 721 729
Indigo. 77 Ice. 92 Gunpowder. 93 Butter. 94 Clay. 120 Coal. 130	Aluminum Zinc. Cast Iron Tin Steel. Brass.	
Indigo. 77 Ice. 92 Gunpowder. 93 Butter. 94 Clay. 120 Coal. 130 Opium. 134	Aluminum Zinc. Cast Iron Tin Steel. Brass.	
Indigo. 77 Ice. 92 Gunpowder. 93 Butter. 94 Clay. 120 Coal. 130 Opium. 134 Honey. 145	Aluminum Zinc. Cast Iron Tin. Steel. Brass. Copper. Silver.	267 719 721 729 783 800 895
Indigo. 77 Ice. 92 Gunpowder. 93 Butter. 94 Clay. 120 Coal. 130 Opium. 134 Honey. 145 Ivory. 183	Aluminum Zinc. Cast Iron Tin. Steel. Brass. Copper. Silver.	267 719 721 729 783 800 895
Indigo. 77 Ice. 92 Gunpowder. 93 Butter. 94 Clay. 120 Coal. 130 Opium. 134 Honey. 145 Ivory. 183 Sulphur. 203	Aluminum Zinc. Cast Iron. Tin. Steel. Brass. Copper.	267 719 721 783 800 895 1,047
Indigo. 77 Ice. 92 Gunpowder. 93 Butter. 94 Clay. 120 Coal. 130 Opium. 134 Honey. 145 Ivory. 183 Sulphur. 203 Marble. 270	Aluminum Zinc Cast Iron Tin Steel Brass Copper Silver Lead Mercury	
Indigo. 77 Ice. 92 Gunpowder. 93 Butter. 94 Clay. 120 Coal. 130 Opium. 134 Honey. 145 Ivory. 183 Sulphur. 203	Aluminum Zinc Cast Iron Tin Steel Brass Copper Silver Lead	

the given side of the square by 0.225, and the quotient is the circumference required.

Round timber, when squared, loses one-fifth.

To measure round timber, take the girth in inches at both large and small ends, add them, divide by 2, which gives the mean girth; then multiply the length in feet by the square of one-fourth of the mean girth and the product will be the contents in cubic feet. This rule is commonly adopted, and gives four-fifths of the true contents, one-fifth being allowed to the purphaser for waste in sawing.

four-fifths of the true contents, one-fifth being anowed to the purchaser for waste in sawing.

To measure inch boards, multiply the length in feet by the width in inches, and divide the product by 12. The quotient will be the contents in feet. For lumber 1½ inches thick, add ½ to the quotient. If 1½ inches thick, add ½. If 1½ inches thick, add ½. If 1 inches thick, add ½ to the quotient and so on. If 3 inches thick, divide by 4. If 4 inches thick, divide by 3. If 6 inches thick, divide by 2.

COVERING CAPACITY OF SHINGLES

Average size of shingles—4 x 16 inches—is taken as a basis of calculation.

100 sq. ft. will require, laid 4 inches to the weather.....900 100 sq. ft. will require, laid 41% inches to the weather....800 100 sq. ft. will require, laid 5 inches to the weather.....720 Three and one-half pounds of four-penny nails are required

for laying 1,000 shingles.

Five to ten per cent. should be added to these figures for waste and shortage.

BOARD MEASURE

To ascertain how many board feet are contained in a piece of timber when all the dimensions are given. The size of a board in the first column at the left refers to the width and thickness in inches. The top column designates the length in feet.

SIZE.	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
1x8	8	9½ 11⅔	10 ² / ₃ 13 ¹ / ₃	12 15	13½ 16½	142/3 181/3	16 20	$17\frac{1}{3}$ $21\frac{2}{3}$	18 ² / ₃ 23 ¹ / ₃	20 25	21½ 26⅔	22 ² / ₃ 28 ¹ / ₃	24 30	25½ 31½	26 ² / ₃ 33 ¹ / ₃
1x10 1x12	$egin{array}{c} 10 \ 12 \end{array}$	14	16	18	20	$\frac{1073}{22}$	$\frac{20}{24}$	26	28	30	32	34	36	-38	40
1x14	14	161/3	$18\frac{2}{3}$ $21\frac{1}{3}$	21	231/3	$25\frac{2}{3}$	28	$\frac{30\frac{1}{3}}{34\frac{2}{3}}$	$32\frac{2}{3}$	35	371/3	392/3	42	441/3	462/3
1x16	16	$18\frac{2}{3}$	$21\frac{1}{3}$	24	$26\frac{2}{3}$	$29\frac{1}{3}$	32	$\frac{34^{2}}{3}$	371/3	40	422/3	45½ 17	48 18	50 ² / ₃	53 ¹ / ₃
2x3 2x4	6 8	7 9½	8 103/3	$\frac{9}{12}$	$10 \\ 13\frac{1}{3}$	$\frac{11}{142/3}$	12 16	$\frac{13}{17\frac{1}{3}}$	14 183/3	$\begin{array}{c} 15 \\ 20 \end{array}$	$\frac{16}{21\frac{1}{3}}$	222/3	24	251/3	262/3
2x4 2x6	12	14	16	18	-20 - 1	22 +	24	26	28	30	32	34	36	38	40
2x8	16	182/9	$21\frac{1}{3}$ $26\frac{2}{3}$	24	262/3	291/3	32	342/3	371/9	40	422/3	451/3	48	502/3	531/3
2x10	20	$23\frac{1}{3}$	262/3	30	$33\frac{1}{3}$	362/3	40	431/3	$ 46\frac{2}{3} $	50	531/3	562/3	$\begin{array}{c c} 60 \\ 72 \end{array}$	63½ 76	66 ² / ₃
2x12 2x14	24 28	28	32	36 42	$\frac{40}{462/3}$	5114	48 56	$\frac{52}{60\frac{2}{3}}$	$\frac{56}{65\frac{1}{3}}$	60 70	$\frac{64}{74\frac{2}{3}}$	$69 \frac{791}{3}$	84	882/6	931/3
2x14 2x16	32	$\frac{32\%}{37\frac{1}{3}}$	$37\frac{1}{3}$ $42\frac{2}{3}$	48	$53\frac{1}{3}$	51½ 58⅔	64	$69\frac{1}{3}$	$74\frac{2}{3}$	80	851/3	902/3	96	$101\frac{1}{3}$	10623
3x4	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
3x6	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60
3x8	24 30	28 35	32 40	36 45	40 50	44 55	48 60	$\begin{array}{c c} \cdot 52 \\ 65 \end{array}$	56 70	60 75	64 80	68 85	$\begin{array}{c c} 72 \\ 90 \end{array}$	76 95	80 100
3x10 3x12	36	42	48	54	60	66	72	78	84	90		102	108	114	120
3x14	42	49	56	63	70	77	84	91	98	105	112	119	126	133	140
3x16	48	56	64	72	80	88	96	104	112	120	128	136	144	52	160
4x4	16	182/3	211/3	24 36	262/3	291/3	32	$\frac{342/_{3}}{52}$	37½ 56	40	$\frac{42\%}{64}$	$\frac{451}{3}$	48 72	50 ² / ₃	53½ 80
4x6 4x8	24 32	$\frac{28}{37\frac{1}{3}}$	$\frac{32}{42\frac{2}{3}}$	48	$\frac{40}{53\frac{1}{3}}$	44 58 ² / ₃	48 64	691/3	$74\frac{2}{3}$	80	851/3	902/3	. 96	1011/3	
4x10	40	462/3	531/3	60	$66\frac{2}{3}$	731/3	80	862/3	931/3	100	1062/3	$113\frac{1}{3}$	120	1262/3	13313
4x12	48	56	64	72	80	88	96	104	112	120	128	136	144	152	160
4x14	56	$65\frac{1}{3}$	742/3	84	$93\frac{1}{3}$ $106\frac{2}{3}$	1023/3	112	1211/3	130%	140	1491/3	1582/3	168	1771/3	1862/9
4x16 6x6	64	$74\frac{2}{3}$ 42	85½ 48	96 54	60	$117\frac{1}{3}$	128 72	138 ² / ₃	149 ½ 84	160 90	170 ² / ₃	$\frac{181}{3}$	192 108	$202\frac{2}{3}$ 114	120^{213}
6x8	48	56	64	72	80	88	96	104	112	120	128	136	144	152	160
6x10	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
6x12	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
6x14 6x16	84 96	$\begin{array}{c} 98 \\ 112 \end{array}$	112 128	126 144	140 160	154 176	168 192	182 208	$\frac{196}{224}$	$\begin{array}{c} 210 \\ 240 \end{array}$	224 256	238 272	252 288	266 304	280 320
8x8	64		851/3	96			128		$149\frac{1}{3}$	160	1702/3	1811/3	192	2023/3	21314
8x10	80	74 ² / ₃ 93 ¹ / ₃	$ 106\frac{2}{3} $	120	$106\frac{2}{3}$ $133\frac{1}{3}$	1462/3	160	$ 173\frac{1}{3} $	$186\frac{2}{3}$	200	2131/3	$ 226\frac{2}{3}$	240	$ 253\frac{1}{3}$	$ 266^{2}$
8x12	96	112	128	144	160	176	192	208	224	240	256	272	288	304	320
8x14	112	130 ² / ₃ 149 ¹ / ₃	1491/3	168	1862/3	$205\frac{1}{3}$ $234\frac{2}{3}$	224	2422/3	261 1/3	280	298 ² / ₃ 341 ¹ / ₃	31714	336	3542/3	373½ 426⅔
8x16 10x10	100	$149\frac{1}{3}$ $116\frac{2}{3}$	$170\frac{2}{3}$ $133\frac{1}{3}$	192 150	1662/	$\frac{234\frac{7}{3}}{183\frac{1}{3}}$	256 200	$277\frac{1}{3}$ $216\frac{2}{3}$	$298\frac{2}{3}$ $233\frac{1}{3}$	320 250	2662	362 ² / ₃ 283 ¹ / ₃	384	3162	426 ² / ₃
10x10	120	140	160	180	200	220	240	260	280	300	320	340	360	1380	400
10x14	140	1631/3	1862/3	210	233½ 266¾	256 ² / ₃ 293 ¹ / ₃	280	3031/3	326%	350	3731/3	3963	410	4431/3	4662
10x16	160	1863/3	$ 213\frac{1}{3} $	240	2662/3	2931/3	320	$ 346\frac{2}{3}$	$ 373\frac{1}{3}$	400	$ 426\frac{2}{3}$	$ 453\frac{1}{3}$	480	$ 506\frac{2}{3}$	533
12x12 12x14	144	168 196	192 224	216 252	240 280	264 308	288 336	312	336	360 420	384	408	432	456	480
12x14 12x16	192	224	256	288	320	352	384	364 416	392 448	480	448 512	476 544	504	532 608	560 ▲ 640
14x14	196	2282/3	2611/	294		3591%	392	4242/9	4571/	490	5222/	5551/4	588	6202/	65314
14x16	224	12611/9	298%	336	3731/3	359½ 410⅔	448	$ 485\frac{1}{3}$	$ 522\frac{1}{3}$	0.560	5971/3	555½ 634⅔	672	7091/3	653 ¹ / ₃
1 6x16	256	2982/3	3411/3	384	426%	4691/3	512	5542/3	$597\frac{1}{3}$	640	6822/3	7251/3	768	810%	8531

Note—By simply multiplying or dividing the above amounts, the number of feet contained in other dimensions can be obtained.

CIRCUMFERENCES AND AREAS OF CIRCLES

198
78 9.032 6.491 22 69.11 380.13 78 248.19 4901. 14 10.21 8.295 24 75.39 452.39 80 251.33 5026. 14 10.99 9.621 25 78.54 490.87 81 254.07 5153. 34 11.78 11.044 26 81.68 530.93 82 257.61 5281. 4 12.56 12.566 27 84.82 572.56 83 260.75 5410. 14 13.35 14.186 28 87.96 615.75 84 263.89 5541. 14 13 15.904 29 91.10 660.52 85 267.04 5674. 34 14.92 17.720 30 94.24 706.86 86 270.18 5808. 5 15.70 19.635 31 97.38 754.77 87 273.32 5944. 14 16.49 21.647 </td

CONVERSION OF VARIOUS TABLES

Feet multiplied by .00019 equals miles.
Yards multiplied by .0006 equals miles,
Links multiplied by .22 equals yards.
Feet multiplied by 1.515 equals links.
Square inches multiplied by .00095 equals square feet.
Circular inches multiplied by .00546 equals square feet.
Square feet multiplied by .00546 equals square yards.
Acres multiplied by .4840 equals square yards.
Square yards multiplied by .002066 equals acres.
Width in chains multiplied by .002066 equals acres.
Width in chains multiplied by .03704 equals cubic yards.
Cubic feet multiplied by .003704 equals cubic yards.
Cubic inches multiplied by .0058 equals cubic feet.
U. S. bushels multiplied by .0461 equals cubic feet.
U. S. bushels multiplied by .2150.42 equals cubic inches.
Cubic feet multiplied by .2150.42 equals cubic feet.
U. S. gallons multiplied by .13367 equals Cubic inches.
Cubic feet multiplied by .13367 equals Cubic feet.
U. S. gallons multiplied by .13367 equals U. S. gallons.
Cubic feet multiplied by .748 equals U. S. gallons.
Cubic feet multiplied by .03608 equals U. S. gallons.
Cubic feet multiplied by .03608 equals pounds avoird.
Cubic inch of water multiplied by .03608 equals pounds avoird.
Cubic inches multiplied by .03429 equals U. S. gallons.
Cylindrical foot of water multiplied by .91 equals pounds avoird.
Cubic inches multiplied by .034329 equals U. S. gallons.
Cylindrical feet multiplied by .95.874 equals U. S. gallons.
U. S. gallons of water multiplied by .95.88 equals one ton.
Cubic feet of water multiplied by .95.88 equals one ton.
Cubic feet of water multiplied by .95.89 equals u. S. gallons.
U. S. gallons of water multiplied by .95.89 equals one ton.
Cubic feet of a circle multiplied by .95.89 equals six one ton.
Cubic feet of a circle multiplied by .95.89 equals one ton.
Cubic feet of a circle multiplied by .95.89 equals one ton.
Cubic feet of a circle multiplied by .95.89 equals one ton.
Cubic feet of a circle multiplied by .95.89 equals one ton.
Cubic feet of a circle multiplied by .95.89 equals one ton.
Cubic feet of a ci Feet multiplied by .00019 equals miles.

Circumference of a circle multiplied by .31831 equals diameter. Side of a square multiplied by 1.128 equals diam. of equal circle. Square foot of an area multiplied by 1.12837 equals diam. of equal circle.

Square of the diam. of a sphere multiplied by 3.1416 equals convex surface.

Cube of the diam, of a sphere multiplied by .5236 equals solidity. Diameter of a sphere multiplied by .806 equals dimensions of equal cube.

Diameter of a sphere multiplied by .6667 equals length of equal

Diameter of a space maniphed by 3000 equals regard of cylinder.

Cubic inches multiplied by .00360V equals imperial gallons.

Cubic feet multiplied by .6232 equals imperial gallons.

Lineal yards multiplied by .000568 equals statute miles.

Column of water 12 in. high, 1 in. in diameter, equals .341 lbs.

183.346 circular inches equals 1 square foot. 2200 cylindrical inches equals 1 cubic foot.

NUMBER OF GALLONS CONTAINED IN CIRCULAR

Decree	WHEN THE DEPTH IS													
DIAMETER	3-feet	4-feet	5-feet	6-feet	7-feet	8-feet	9-feet	10-feet						
4 feet	234	312	390	468	546	624	702	780						
5 "	363	484	605	726	847	968	1089	1210						
6 "	515	700	875	1050	1230	1400	1545	1750						
7 "	720	960	1200	1440	1680	1920	2160	2400						
8 "	933	1244	1555	1866	2177	2488	2799	3110						
9 "	1185	1480	1975	2370	2765	2960	3555	3950						
10 "	1464	1952	2440	2928	3416	3904	4392	4880						
11 4	1776	2368	2960	3552	4144	4736	5326	5928						
12 "	2112	2816	3520	4224	4928	5632	6336	7040						

HEIGHT AND WEIGHT OF MEN

Table of Average Height and Weight of Males, Based on Analysis of 74,162 Accepted Applicants for Life Insurance as Reported to the Association of Life Insurance Medical Directors.

HEIGHT	Age 15-24	Age 25-29	Age 30-34	Age 35-39	Age 40-44	Age 45-49	Age . 50-54	Age 55-59	Age 60-64	Age 65-69
	Lbs.	Lbs.	Lbs.	Lbs.						
5 feet	120	125	128	131	133	134	134	134	131	
5 feet 1 inch	122	126	129	131	134	136	136	136	134	
5 feet 2 inches	124	128	131	133	136	138	138	138	137	
5 feet 3 inches	127	131	134	. 136	139	141	141	141	140	140
5 feet 4 inches	131	135	138	140	143	144	145	145	144	143
5 feet 5 inches	134	138	141	143	146	147	149	149	148	147
5 feet 6 inches	138	142	.145	147	150	151	153	153	153	151
5 feet 7 inches	142	147	150	152	155	156	158	158	158	156
5 feet 8 inches		151	154	157	160	161	163	163	163	162
5 feet 9 inches	150	155	159	162	165	166	167	168	168	168
5 feet 10 inches		159	164	167	170	171	172	173	174	174
5 feet 11 inches	159	164	169	173	175	177	177	178	180	180
6 feet	165	170	175	179	180	183	182	183	185	185
6 feet 1 inch	170	177	181	185	186	189	188	189	189	189
6 feet 2 inches	176	184	188	192	194	196	194	194 -	192	192

HEIGHT AND WEIGHT OF WOMEN

women, all ages. The weight of ordinary clothing, however, is included: The following table gives the relative height and weight of

Height	Average	Minimum	Maximum
5 feet	115	98	132
5 feet 1 inch		102	138
5 feet 2 inches	. 125	106	144
5 feet 3 inches		111	150
5 feet 4 inches		115	155
5 feet 5 inches		119	161
5 feet 6 inches		121	165
5 feet 7 inches		123	167
5 feet 8 inches		126	170
5 feet 9 inches.		131	. 179
5 feet 10 inches		136	184
5 feet 11 inches		138	190
		130	196
6 feet	. 170 .	141	190

FACTS ABOUT THE HUMAN BODY

The average number of teeth is 32.

The weight of the circulating blood is 29 lbs.
The average weight of an adult is 150 lbs. 6 oz.
The brain of a man exceeds twice that of any animal.
The average weight of the brain of a man is 3½ lbs.; of a woman 2 lbs. 11 oz.

woman 2 lbs. 11 oz.

Five hundred and forty pounds, or one hogshead and one and
a quarter pints of blood pass through the heart in one hour.
A man breathes about 20 times a minute.
The average height of an Englishman is 5 ft. 9 in.; of a
Frenchman 5 ft. 4 in.; of a Belgian 5 ft. 63% in.
The heart sends nearly 10 lbs. of blood through the veins and
arteries each beat, and makes four beats while we breathe once.
One hundred and seventy-five million cells are in the lungs,
which would cover a surface thirty times greater than the
human body.

The average of the pulse in infency is 120 per minutes in

The average of the pulse in infancy is 120 per minute; in manhood 80; at sixty years 60. The pulse of females is more rapid than that of males.

VALUE OF RARE UNITED STATES COINS

Gold		
Date Value 1863 \$5.00 to \$1 1864 6.00 to 1 1875 10.00 to 1 1.50 to 1.50	1794, He 1804, La 10.00 1836, Fl 12.00 1838, Fl 15.00 1839, Fl 6.00 1851, 185 1.75 1858, Lil	ead
1863	1004, La	irge
1864 6.00 to	2.00 1838. FI	vin
1875 10.00 to	5.00 1839, Fl	yin
Other dates 1.50 to	6.00 1851, 185	52,
Common 1.50 to	1.75 1858, Li	ber
1706 1707 1709 QUARTER EAGLES (\$2.50)	0.00	
1826	0.00	
1804, 1805, 1806, 1807, 1808, 1821, 1824, 1825, 1827, 1	830, 1796	
1833, 1834 with "E Pluribus Unum," 1842, 1863, 1875, 1881	and 1831	
QUARTER EAGLES (\$2.50) 1796, 1797, 1798. \$10.00 to \$1 1826. \$1.00 to \$2 1804, 1805, 1806, 1807, 1808, 1821, 1824, 1825, 1827, 1 1833, 1834 with "E Pluribus Unum," 1842, 1863, 1875, 1881 1885 command premium of from \$3.00 to \$6.00.	and 1831 1836	
THREE-DOLLAR 1875	1840 to 1	
1875 20.00 to \$1	8.00 1852 0.00 Any ha	ie.
1876	5.00	
Some other dates as high as \$6.00.	1793, Ch	air
Common dates, \$3.25 to \$3.75.	1793, Ch 1793, Ch 1793, Lil 15.00 1799, Ov 15.00 1804	air
	1793, Lil	ber
1879\$15.00 to \$2	5.00 1799, Ov	er
	35.00 1804 All oth	er
HALF EAGLES (\$5)	0.00 more or l	
1815	0.00	
1819 12.00 to 2	0.00 1830 (NI	cke
1821 12.50 to 2	0.00	ОПЗ
1822	0.00 5.00 1873	
1834. with "E Pluribus Unum" 7.50 to 10	5.00 1873 0.00	•
HALE EAGLES (\$5) 1795, 1796, 1797, 1798. \$6.50 to \$3 1815. 75.00 to 10 1819. 12.00 to 2 1821. 12.50 to 2 1822. 75.00 to 15 1823 to 1833 7.50 to 2 1823 with "E Pluribus Unum" 7.50 to 11 1875, without mint mark 7.50 to 11 1887, without mint mark 10.00 to 1	0.00	
1887, without mint mark 10.00 to	5.00 1877	
EAGLES (\$10)		
1795 to 1798	0.00 1877	
1797 (small Eagle)	2.00	
1873, 1875, 1876, 1877, without mint marks. 12.00 to	0.00 TIME A	T
DOUBLE EAGLES (\$20)	Rate	
1881 to 1887 without any mint mark \$21.00 to \$3		
1001 to 1007, without any mint mark	0.00	per
1907, Flying Eagle, date in Roman letters 22.00 to 3	0.00 2	
DOUBLE EAGLES (\$20) 1881 to 1887, without any mint mark. \$21.00 to \$3 1907, Flying Eagle, date in Roman letters. 22.00 to 3 FIFTY-DOLLAR GOLD PIECES	2 3/2	
Fifty-Dollar Gold Pieces	2 3/2	
FIFTY-DOLLAR GOLD PIECES	0.00 2½ 3	
FIFTY-DOLLAR GOLD PIECES Round or octagon, any date	0.00 2½ 3 4	
FIFTY-DOLLAR GOLD PIECES Round or octagon, any date	0.00 3 3½ 4	
FIFTY-DOLLAR GOLD PIECES Round or octagon, any date. \$75.00 to \$11 Silver THREE-CENT PIECES 1863 . \$0.25 to \$186475 to \$1865 to 1873	0.00 3 3.½ 4 0.50 4 1.00 5	
FIFTY-DOLLAR GOLD PIECES Round or octagon, any date	0.00 3 3½ 4 0.50 4½ 1.00 5 .50 6	
FIFTY-DOLLAR GOLD PIECES Round or octagon, any date	0.00 3 3½ 4 0.50 4½ 1.00 5 .50 6	
FIFTY-DOLLAR GOLD PIECES Round or octagon, any date	0.00 3 3½ 4 0.50 4½ 1.00 5 .50 6	
FIFTY-DOLLAR GOLD PIECES Round or octagon, any date	0.00 3 3½ 4 0.50 4½ 1.00 5 .50 6	
FIFTY-DOLLAR GOLD PIECES Round or octagon, any date	0.00 2½3 34 4	region
FIFTY-DOLLAR GOLD PIECES Round or octagon, any date	0.00 3	reg
FIFTY-DOLLAR GOLD PIECES Round or octagon, any date	0.00 3	reg
FIFTY-DOLLAR GOLD PIECES Round or octagon, any date	0.00 2½3 34 4	reg
FIFTY-DOLLAR GOLD PIECES Round or octagon, any date	0.00 3	reg
FIFTY-DOLLAR GOLD PIECES Round or octagon, any date	23/4	reg
FIFTY-DOLLAR GOLD PIECES Round or octagon, any date	23/4	regeout
FIFTY-DOLLAR GOLD PIECES Round or octagon, any date	23/4	regeout
FIFTY-DOLLAR GOLD PIECES Round or octagon, any date	23/4	regeout
FIFTY-DOLLAR GOLD PIECES Round or octagon, any date	23/4	regreatification
FIFTY-DOLLAR GOLD PIECES Round or octagon, any date	23/4	reground activity act
FIFTY-DOLLAR GOLD PIECES Round or octagon, any date	23/4	reground activity act
FIFTY-DOLLAR GOLD PIECES Round or octagon, any date	23/4	reground activity act
FIFTY-DOLLAR GOLD PIECES Round or octagon, any date	23/4 3.1/2	ible guesoy diagon diag
FIFTY-DOLLAR GOLD PIECES Round or octagon, any date	23/4 3.3/2 3.3/2 3.3/2 3.3/2 3.3/2 3.3/2 3.3/2 4.00 5.00 5.00 1.50 5.00 1.50 The for bank acc seem attr may be (apparent.) 4.00 1.50 The Bi alien toon long list (apparent.) 5.00 1.50 The Bi alien toon long list (apparent.) 5.00 1.50 The Bi alien toon long list (apparent.) 4.00 1.50 The Bi alien toon long list (apparent.)	rego restrictions disagrants disa
FIFTY-DOLLAR GOLD PIECES Round or octagon, any date	23/4 3.1/2	regularitation districts and the second seco
FIFTY-DOLLAR GOLD PIECES Round or octagon, any date	23/4 3.1/2 3	reggiestrip
FIFTY-DOLLAR GOLD PIECES Round or octagon, any date	23/4 3.1/2	reggiestrip
FIFTY-DOLLAR GOLD PIECES Round or octagon, any date	23/4 3.1/2 3	reggiestrip

DOLLARS	
1794, Head, flowing hair\$25.00 to	\$40.00
1804, Large Eagle	500.00
1836, Flying Eagle	25.00
1838, Flying Eagle	50.00
1830 Flying Fools	30.00
1839, Flying Eagle	35.00
1851, 1852, Liberty seated	25.00
1858, Liberty seated 12.00 to	25.00
Copper	
HALF CENTS	
1793 \$1.00 to	\$3.00
1796 10.00 to	
1831 5.00 to	
1836 7.00 to	
1840 to 1849	
1852 5.00 to	
Any half cent commands a premium of from 3c. to 10	0.00
	Ç.
CENTS (LARGE)	
1793, Chain, Ameri (instead of America) \$3.50 to	
1793, Chain America 2.50 to	
1793, Liberty Cap 3.50 to	
1799, Over 1798 5.00 to	25.00
1804 3.50 to	15.00
All other dates, if in good condition, command a p	remium.
more or less.	
. SMALL CENTS	
1856 (Nickel), Flying Eagle \$3.00 to	\$5.00
1877 (Bronze), Indian Head	.25
Two-Cent (Bronze)	
	\$1.50
	, 41.30
Nickel	
THREE-CENT	
1877 \$1.00 to	\$2.00
Five-Cent	-,
1877 \$.75 to	\$2.00
10//	\$2.00

TIME AT WHICH MONEY DOUBLES AT INTEREST

Rate per cent.	Simple interest	Compound interest
2		35 years, 1 day 28 years, 26 days 23 years, 164 days 20 years, 54 days 17 years, 246 days 15 years, 273 days 15 years, 327 days 10 years, 89 days 9 years, 2 days 8 years, 16 days 7 years, 100 days

The foregoing table is a strong argument in favor of a savings bank account. The small interest earned in a year may not seem attractive, but when one considers that money at interest may be tripled in a life time the importance of this becomes apparent.

BIBLE IN ALIEN TONGUES

The Bible continues to break all records for translation into alien tongues. Another language has just been added to the long list by the completion of the Ibanag New Testament in the Philippines. The Old Testament is being brought out in the Panayan dialect, and the Pentateuch in Pampangan and Cebuan is ready for the printer. The Kurdish New Testament is well under way, and revisions are being made in Tagalog, Portuguese, the Wenli and Mandarin in China, Siamese and Zulu. The total issues for 1911, the ninety-sixth year of the existence of the American Bible Society, amounted to nearly 3,700,000 volumes, most of these being portions and not entire Bibles. Of the latter, however, there were more than 400,000. The total issues of the Society during its ninety-six years reach the gigantic figure of ninety-four million volumes.

VALUES OF FOREIGN COINS

			Value in	
Country	Legal standard	Monetary unit	terms of U.S.	(a) Remarks
Argentina	Gold	.Peso	money\$0.965	. Currency: Depreciated paper, convertible at 44 per cent of face value.
Austria-Hungary	Gold	.Crown	203	
Austria-Hungary Belgium	Gold and silver	.Franc	193	. Member of Latin Union; gold is the actual standard.
Bolivia Brazil	Gold	.Boliviano	389	.12½ bolivianos equal 1 pound sterling. .Currency: Government paper. Exchange rate about 2 cents to the milreis.
British Colonies in Aus	Gold	.Pound sterling	4.8665	Table about a ceres to the miner.
	Gold	.Dollar	1.000	
Central Amer. States: Costa Rica	Gold	.Colon	465	Guatemala: Currency, inconvertible pa-
British Honduras Nicaragua	Gold	Dollar Cordoba	1.000	per, exchange rate about 40 pesos= \$1.00.
Guatemala Honduras		.Peso		Honduras: Currency, bank notes. Salvador: Currency, convertible into sil-
Salvador	J	.Peso	365	ver on demand. Currency: Inconvertible paper; exchange
China		(Canton	593	rate, approximately, \$0.14.
Cmia		Shanghai Hongkong	543	
		Dollar British	391	· · · · · · · · · · · · · · · · · · ·
Colombia	Gold	.Dollar	1.000	.Currency: Inconvertible paper; exchange rate, approximately, \$105 paper to \$1
Denmark	Gold	.Crown	268	gold.
Dominican Republic	Gold	.Dollar	1.000	
Dominican Republic Ecuador Egypt.	.Gold	.Pound (100 piasters)	4.943	.The actual standard is the British pound sterling, which is legal tender for 97 1/2
Finland	Gold	.MarkFranc	193 193	piasters Member of Latin Union; gold is the actual
German	Goldl	Mark	238	standard.
GermanGreat BritainGreece	Gold Gold and silver	.Pound sterling .Drachma	4.8665	. Member of Latin Union; gold is the actual
Haiti	Gold	.Gourde	965	standardCurrency: Inconvertible paper; exchange
India [British]	Gold	.Rupee	324	rate, approximately, \$0.16 (15 rupees equal 1 pound sterling.)
Italy				.Member of Latin Union; gold is the actual standard.
Japan Liberia	Gold	.Yen .Dollar	1.000	.Currency: Depreciated silver token coins.
Mexico.				Customs duties are collected in gold. Mexican exchange rate violently fluctuating
				approximately, \$0.15.
Netherlands Newfoundland	Gold	.Dollar	1.014	
Norway Panama	Gold	Crown	268	
Paraguay	Silver	.Peso	363	.Currency: Depreciated paper, exchange rate 1,550 per cent.
Persia	Gold and silver	.Kran	170	This is the value of the gold kran; ex-
	Gold		4.8665	This is the value of the gold kran; exchange value of silver kran, approximately, \$0.0875.
Philippine Islands Portugal	Gold	Escudo	500	.Currency: Inconvertible paper; exchange
Roumania	Gold	Leu	193	rate, approximately, \$0.70 1/2.
Russia	Gold	Ruble	515	
Siam	. Gold	.Tical	371	
				.Valuation is for the gold peseta; currency is silver circulating above its metallic
Straits Settlements	Gold Gold	Dollar	567	value; exchange value, approximately, \$0.20.
Switzerland	Gold	Franc		. Member of Latin Union; gold is the actual standard.
Turkey	Gold	Piaster	044	.100 piasters equal to the Turkish £.
Uruguay. Venezuela.	Gold	Bolivar	1.034	
a The exchange rates sh which are fluctuating in th	nown under this hea eir relation to the lea	ding are recent quotatio	ns and given	as an indication of the values of currencies

RULES AND TABLES FOR COMPUTING INTEREST

ONE DOLLAR INTEREST TABLE

Days	3%	4%	5%	6%	7%
1	.00008	.00011	.00013	.00016	.00019
2	.00017	.00022	.00027	.00033	.00038
3	.00025	.00033	.00041	.00050	.00058
<u></u>	.00033	.00044	.00055	.00066	.00077
5	.00042	.00056	.00069	.00083	.00097
5	.00050	.00067	.00083	.00100	.00116
3	.00058	.00078	.00097	.00116	.00136
0	.00075	.00100	.00125	.00150	.00133
)	.00083	.00111	.00138	.00166	.00173
l	.00092	.00122	.00152	.00183	.00213
2	.00100	.00133	.00166	.00200	.00233
	.00108	.00144	.00180	.00216	.00252
	.00117	.00156	.00194	.00233	.00272
	.00125	.00167	.00208	.00250	.00291
	.00133	.00178	.00222	.00283	.00311
3	.00150	.00200	.00250	.00300	.00350
	.00158	.00211	.00263	.00316	.00369
	.00167	.00222	.00277	.00333	.00388
	.00175	.00233	.00291	.00350	.00408
	.00183	.00244	.00305	.00366	.00427
•••••	.00192	.00256	.00319	.00383	.00447
	.00200	.00267	.00333	.00400	.00466
	.00203	.00278	.00347	.00410	.00505
	.00225	.00300	.00375	.00450	.00525
	.00233	.00311	.00388	.20466	.00544
) 	.00242	.00322	.00402-	.00483	.00563
	.00250	.00333	.00416	.00500	.00583
Months	00250	00222	00446	00500	.00583
	.00250	.00333	.00416 .00833	00500 -01000	.01166
	.00750	.01000	.01250	.01500	.01750
	.01000	.01333	.01666	.02000	,02333
	.01250	.01667	.02083	.02500	.02916
	.01500	.02000	.02500	.03000	.03500
	.01750	.02333	.02916	.03500	.04083
	.02000	.02667	.03333	.04000	.04666
	.02250	.03000	.03750	.04500	.05250
********	.02300	.03667	.04100	.05500	.06416
Years	.02/30	.03007	*04200	103300	.00110
1 cars	.03	.04	.05	٥٥,	.07
	.06	.08	.10	.12	.14
	.09	.12	.15	.18	.21
	.12	.16	.20	.24	.28
	.15	.20	.25	.30	.35

SIMPLE RULES FOR COMPUTING INTEREST

The following will be found to be excellent rules for finding the interest on any principal for any number of days. When the principal contains cents, point off four places from the right of the result to express the interest in dollars and cents. When the principal contains dollars only, point off two places.

Two per cent—Multiply the principal by the number of days to run, and divide by 180.

Two and one-half ner cent—Multiply by number of days, and

Two and one-half per cent—Multiply by number of days, and divide by 144.

Three per cent—Multiply by number of days, and divide by

Three and one-half per cent-Multiply by number of days,

Three and one-half per cent—Multiply by number of days, and divide by 90. Four per cent—Multiply by number of days, and divide by 90. Five per cent—Multiply by number of days, and divide by 72. Six per cent—Multiply by number of days, and divide by 60. Seven per cent—Multiply by number of days, and divide by 60. 51.43.

Eight per cent—Multiply by number of days, and divide by 45. Nine per cent—Multiply by number of days, and divide by 40. Ten per cent—Multiply by number of days, and divide by 36. Twelve per cent—Multiply by number of days, and divide by

30. Fifteen per cent—Multiply by number of days, and divide by 24.

INTEREST RATES AND STATUTE OF LIMITATIONS

	1,114	IIIAIIC	11/2		
State	Intere	st Rate	Li	mitations	3
2000	Legal	By con-	Judg-	Notes	Open
	rate	tract	ments		Accts.
Alabama	Per cent.	Per cent.	Years 20	Years 16	Years 3
Arkansas	6	10	10	5	3
Arizona California	7 -	Any Any	5 5	4	3
Colorado	6 7 8 6	Any	20	6	6
Connecticut	6	6	10		6
Delaware. Dist. of Columbia	6	10	12	6 3 5 6 5 10	3
Fiorida	8	10	20	5	2
Georgia	7	8 12	7 6	6	4
Illinois	5	7	20	10	ŝ
Indiana	6	8	20 20	10 10	6
Iowa Kansas	6	10	- 5	5	3
Kentucky	6	6	15	15	15
Louisiana	5	8 Any	10 20	*20	5 6
Marviand	6	6	12	3 6	3
Massachusetts Michigan	6	Any 10	20 6	6	6
Minnesota	7	10	10	6	6
Mississippi	6	10	7	6 10	3
Missouri. Montana.	8	8 Any	10 10	10	5
Nebraska	7	10	15	8 5 6 6 6 6 6 3 6 15 6 6 6	ő
Nevada New Hampshire.	7	Any 6	6 20	6	6
New Jersey	6	6	20	6	6
New Jersey New Mexico	. 6	12	7	6	4
New York North Carolina	6	6	20 10	3	3
North Dakota	7	12	10	6	6.
OhioOklahoma	6	8 12	6	15	3
Oregon	6	10	10	6	6
Oregon	6	6	5 20	6	6
Rhode Island South Carolina	7	Any 8	10	6	6
South Dakota	7	12	10	6	6
Tennessee	6	6 10	10 10	0	2
TexasUtah	668775666656665766877666676766677668	Any	8	6	4
Vermont	6	6	8 20	6 6 6 4 6 6 5	3326633244565353636663555046646366366666624621368
Virginia	6	6	6	6	í
Washington West Virginia	6	6	10	6 10	3
Wisconsin	6	10 12	20	6 5	6
Wyoming	ō	12		3	

*Of record.

The largest national bank in the United States is the National City Bank in New York City, with a capital of \$25,000,000, deposits of about \$150,000,000, and resources of \$312,000,000.

30								IS TROME			. 04	
TABLE	OF A			-		1	,	OCKS P.				
Selling Price	4%	5%	6%	7%	8%	9%	10%	11%	12%	13%	14%	11%
85 86	4.71 4.65	5.88	7.06 6.98	8.24 8.14	9.41	10.59 10.46	11.76 11.62	12.94	14.11	15.29 15.11	16.4 7 16.2 7	17.64 17.44
87	4.60 4.55	5.81	6.90	8.05 7.95 7.87	9.30 9.20 9.09	10.34 10.23	11.49 11.36	12.79 12.64 12.50	13.95 13.79 13.61	14.94 14.77	16.09 15.91	17.44 17.24 17.04
88 89	4.49	5.68	6.74	7.93	8.99	10.23	11.23	12.36	13.48	14.60	15.73	16.85
90 91	4.44 4.40	5.56 5.49	6.67	7.78	8.89	10.00	11.11	12.22	13.33	14.44 14.28	15.55 15.38	16.66 16.48
92 .	4.35	5.43 5.38	0.52	7.61 7.53	8.79 8.70	9.89 9.78	10.98	11.96	13.18 13.04	14.13	15.21	16.48 16.30 16.13
93 94	4.30 4.26	5.38	6.45	7.53 7.45 7.37	8.60 8.51	9.67 9.57	10.75	11.70	12.90 12.77	13.98 13.83	15.05 14.89	15.95
95 96	4.21 4.17	5.26 5.21	6.32 6.25	7.37	8.42	9.47 9.39	10.53	11.58 11.46	12.63	13.68 13.54	14.73 14.58	15.79 15.62
96 97	4.12	5.15	6.19	7.29	8.25	9.28	10.42	11.34	12.50 12.37	13.40	14.43	15.46 15.30
98 99	4.08	5.10 5.05	6.12	7.14	8.16 8.08	9.17 9.09	10.20	11.22 11.11	12.24 12.12	13.26 13.12	14.28 14.14	15.15
100 101	4.00	5.00 4.95	6.00 5.94	7.00	8.00 7.92	9.00 8.91	10.00 9.90	11.00 10.89	12.00	13.00	14.00	15.00 14.85
102	3.96 3.92	4.90	5.88	6.93	7.84	8.82	9.80	10.78	11.88 11.76	12.87 12.74	13.86 13.72 13.59	14.85 14.70
103 104	3.88 3.85	4.85 4.81	5.83 5.77	6.80	7.77 7.69	8.74 8.65	9.71 9.62	10.68 10.58	11.65 11.54	12.62 12.50	13.59	14.56 14.42
105 106	3.81	4.76 4.72	5.71 5.66	6.67	7.67	8.57 8.49	9.52 9.43	10.48 10.38	11.43 11.32	12.38 12.26	13.33	14.28 14.15
107	3.74	4.67	5.61	6.54	7.48	8.41	9.34	10.28	11.21	12.15	13.20 13.08	14.02
108 109	3.70	4.63 4.59	5.56 5.50	6.48	7.41 7.34	8.31 8.26	9.26 9.17	10.18	11.11 11.01	12.03 11.92	12.96 12.84	13.88 13.76
110 112½	3.64 3.56	4.55 4.44	5.45 5.33	6.36 6.22	7.27	8.18 8.00	9.09 8.89	10.00	10.90 10.67	11.81	12.72	13.63
115	3.48	4.35	5.22	6.09	6.96	7.82	8.70	9.77 9.56 9.36	10.43	11.46 11.30	12.44 12.17	13.33 13.04
117 ½ 120	3.40 3.33	4.26	5.11 5.00	5.96 5.83	6.81 6.67	7.66 7.50	8.51 8.33	9.36 9.17	10.21 10.00	11.06 10.83	12.00 11.66	12.76 12.50
122½ 125	3.27 3.20	4.08	5.00 4.90 4.80	5.71 5.60	6.53	7.35 7.20	8.16 8.00	8.98 8.80	9.80 9.60	10.61	11.43	12.24
127 1/2	3.14	3 02	4.71	5.49	6.27	7.06	7.84	8.63	9.41	10.40 10.15	11.20 10.98	12.00 11.76
130 132½	3.08 3.02	3.85 3.77 3.71	4.62 4.53	5.38 5.28	6.15 6.04	6.92 6.80	7.69 7.55	8.46 8.30	9.23 9.06	10.00 9.81	10.77 10.56	11.5 <u>4</u> 11.32
135 137 ½	2.96 2.91	3.71 3.64	4.44 4.36	5.28 5.19 5.09	5.93 5.82	6.67 6.55	7.41 7.27	8.15 8.00	8.89 8.73	9.63	10.37	11.11
140	2.86	3.57	4.29	5.00	5.71	6.43	7.14	7.86	8.57	9.45 9.28	10.10 10.00	10.71
142½ 145	2.81 2.76	3.51 3.45	4.21 4.14	4.91 4.83	5.61 5.52	6.31 6.21	7.08 6.90	7.72 7.59	8.42 8.28	9.12 - 8.96	9.82 9.63	10.52 10.34
147½ 150	2.71 2.67	3.39	4.07 4.00	4.75 4.67	5.42 5.33	6.21 6.10 6.00	6.90 6.78 6.67	7.45 7.33	8.14 8.00	8.81	9.49	10.17 10.00
1521/2	2.62	3.28	3.93	4.59	5.25	5.90	6.56	7.20	7.87	8.66 8.52	9.33 9.12	9.83
155 157½	2.58 2.54	3.23 3.17	3.87 3.81	4.52 4.44	5.16 5.08	5.80 5.71	6.45 6.35 ·	7.09 6.98	7.74 7.62	8.39 8.25	9.03 8.89	9.68 9.52
160 162½	2.50 2.46	3:13 3.08	3.75 3.69	4.38 4.31	5.00 4.92	5.63 5.54	6.25 6.15	6.98 6.87 6.77	7.50 7.38	8.12 8.00	8.75	9.52 9.37 9.23
165 167½	2.42	3.03	3.64	4.24	4.85	5.46	6.06	666 1	7.26	7.88	8.61 8.48	9.09
170	2.35	2.94	3.58	4.18 4.12	4.78 4.71	5.38 5.29	5.97 5.88	6.57 6.47 6.37	7.16	7.76 -7.65	8.36 8.24	8.95 8.82
172½ 175	2.32	2.90 2.86	3.48 3.43	4.06 4.00	4.64 4.57	5.21 5.14	5.80 5.71	6.37 6.28	7.06 6.96 6.86	7.54	8.12 8.00	8.69 8.57
177½ 180	2.25	2.82	3.38 3.33	3.94 3.89	4.51	5.07	5.63	6.19	6.76	7.43 7.32	7.89	8.45
1821/2	2.19	2.82 2.78 2.74 2.70	3.29	3.84	4.44	5.00 4.93	5.56 5.48	6.11 6.02	6.67 6.58	7.22 7.12	7.78	8.33 8.22
185 187½	2.16 2.13	2.70	3.24	3.78 3.73	4.32 4.27	4.86 4.79	5.41 5.33	5.94 5.86	6.49	7.02 6.93	7.57 7.47	8.10 8.00
190	2.11 2.08	2.67 2.63	3.16 3.12	3.68	4.21 4.16	4.73 4.67	5.26	5.79	6.40 6.32	6.84 6.75	7.37	7.89
192½ 195	2.05	2.60 2.56 2.53	3.08	3.64 3.59	4.10	4.61	5.19 5.13	5.79 5.71 5.64	6.23 6.15	6.75	7.27 7.18	7.78 7.69
197½ 200	2.03 2.00	2.53	3.04	3.54	4.05 4.00	4.54 4.50	5.06 5.00	5.57 5.50	6.08	6.66 6.58 6.50	7.09	7.59
205	1.95	2.50 2.44 2.38	2.93	3.41	3.90 3.81	4.39	4.88	5.36	5.85	6.34	7.00 6.83	7.50 7.32
215	1.86	2.33	2.86 2.79	3.33 3.26	3.72	4.39 4.28 4.18	4.88 4.76 4.65	5.24 5.11	5.71 5.58	6.19 6.04	6.67	7.14 6.97
220 225	1.82	2.27	2.73	3.18	3.64 3.56	4.08	4.55	5.00 4.88	5.45	5.90 5.78	6.36	6.82
230 235	1.78 1.74 1.70	2.22 2.17 2.13	2.61	3.04	3.48 3.40	3.91 3.83	4.44 4.35	4.78	5.33 5.22	5.65 5.57	6.22 6.09	6.66 6.52
240	1.67	2.08	2.55	2.98 2.92	3.33	3.75	4.26 4.17	4.68 4.58	5.11 5.00	5.57 5.41	5.96 5.83	6.38 6.25
245 250	1.63	2.04	2.45	2.86 2.80	3.27 3.20	3.68	4.08	4.49	5.00 4.90	5.30	5.71	6.12 6.00
255 260	1.60	1.96	2.35	2.75 2.69	3.14 3.08	3.60 3.53	4.00 3.92	4.40 4.31	4.80 4.71	5.20	5.60 5.49	6.00 5.88
265	1.54	1.92 1.89	2.31 2.26	2.64	3.08	3.46 3.39	3.85 3.77	4.22 4.15	4.62 4.53	5.00 4.90	5.38	5.77 5.66
270 275	1.48 1.45	1.85 1.82	2.22	2.59 2.55	2.96	3.33	3.70	4.15 4.07	4.44	4.81	5.28 5.19	5.55
280	1.43	1.79	2.18 2.14	2.50	2.91	3.27	3.64	4.00 3.93	4.36	4.72	5.09	5.45 5.36

WAGE TABLE

MONTHLY WAGES COMPUTED ON A DAY BASIS FOR FRACTIONS OF MONT HS WITH 31 DAYS

For higher wages than \$25 or greater number of days combinations of these columns may be made. For instance if the monthly wages are \$35 add the figures given for \$10 and \$25.

Days.	\$10	\$11	\$12	\$13	\$14	\$ 15	\$ 16	\$17	\$18	\$19	\$20	\$25
1	\$0.32 .65 .97 1.29	\$0.35 .71 1.06 1.42	\$0.39 .77 1.16 1.55	\$0.42 .84 1.26 1.68	\$0.45 .90 1.35 1.81	\$0.48 .97 1.45 1.94	\$0 52 1.03 1.55 2.06	\$0.55 1.10 1.65 2.19	\$0.58 1.16 1.74 2.32	\$0.61 1.23 1.84 2.45	\$0.65 1.29 1.94 2.58	\$0.81 1.61 2.42 3.23
6 7 8	1.61 1.94 2.26 2.58	1.77 2.13 2.48 2.84	1.94 2.32 2.71 3.10	2.10 2.52 2.94 3.35	2.26 2.71 3.16 3.61	2.42 2.90 3.39 3.87	2.58 3.10 3.61 4.13	2.74 3.29 3.84 4.39	2.90 3.48 4.06 4.65	3.06 3.68 4.29 4.90	3.23 3.87 4.52 5.16	4.03 4.84 5.65 6.45
9	2.90 3.23	3.19 3.55	3.48 3.87	3.77 4.19	4.06 4.52	4.35 4.84	4.65 5.16	4.94 5.48	5.23	5.52 6.13	5.81 6.45	7.26 8.06

For Months With 30 Days

Days.	\$10	\$11	\$12	\$13	\$14	\$15	\$16	\$17	\$18	\$19	\$20	\$25
1	\$0.33	\$0.37	\$0.40	\$0.43	\$0.47	\$0.50	\$0.53	\$0.57	\$0.60	\$0.63	1.0.67	\$0.83
	.67	.73	.80	.87	.93	1.00	1.07	1.13	1.20	1.27	1.33	1.67
	1.00	1,10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.50
	1.33	1.47	1.60	1.73	1.87	2.00	2.13	2.27	2.40	2.53	2.67	3.33
	1.67	1.83	2.00	2.17	2.33	2.50	2.67	2.83	3.00	3.17	3.33	4.17
	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	5.00
	2.33	2.57	2.80	3.03	3.27	3.50	3.73	3.97	4.20	4.43	4.67	5.83
	2.67	2.93	3.20	3.47	3.73	4.00	4.27	4.53	4.80	5.07	5.33	6.67
	3.00	3.30	3.60	3.90	4.20	4.50	4.80	5.10	5.40	5.70	6.00	7.50
	3.33	3.67	4.00	4.33	4.67	5.00	5.33	5.67	6.00	6.33	6.67	8.33

DAILY WAGES COMPUTED ON AN HOUR BASIS

			-							
	Rate per day.	0.500.60	0.75 1.00	1.25 1.50	1.75 2.00	2.252.50	2.753.00	3.25 3.50 3	.754.004.25	4.504.755.00
10 HOUR DAY	3 " 4 " 5 " 6 " 7 " 8 " 9 " 10 "	03 03 05 06 10 12 15 18 20 24 25 30 30 36 35 42 40 48 45 54 50 60	.08 .10 .15 .20 .23 .30 .30 .40 .38 .50 .45 .60 .53 .70	.13 .15 .25 .30 .38 .45 .50 .60 .63 .75 .75 .90 .881.05	.18 .20 .35 .40 .53 .60 .70 .80 .881.00 1.051.20 1.231.40 1.401.60	.23 .25 .45 .50 .68 .75 .90 1 .00 1 .13 1 .25 1 .35 1 .50 1 .58 1 .75 1 .80 2 .00	.28 .30 .55 .60 .83 .90 1.101.20 1.381.50 1.651.80 1.932.10 2.202.40	33 .35 .65 .70 .981.051 .1.301.401 .1.552.102 .2 .282.452 .2 .602.803 .2 .933 .153	50 1 . 60 1 . 70 83 2 . 00 2 . 13 25 2 . 40 2 . 55 63 2 . 80 2 . 98 00 3 . 20 3 . 40 38 3 . 60 3 . 83	.45 .48 .50
9 HOUR DAY	1/2 hour	.03 .03 .06 .07 .11 .13 .17 .20 .22 .27 .28 .33 .33 .40 .39 .47 .44 .53 .50 .60	.08 .11 .17 .22 .25 .33 .33 .44 .42 .56 .50 .67 .58 .78	.14 .17 .28 .33 .42 .50 .56 .67 .69 .83 .83 1.00	.20 .22 .39 .44 .58 .67 .78 .89 .97 1 .11 1 .17 1 .33 1 .36 1 .56	1.501.67	1.22 1.33 1.53 1.67 1.83 2.00 2.14 2.33	.36 .39 .78 .1 .08 1 .171 .1 .44 1 .56 1 .1 .171 .2 .172 .33 2 .2 .53 2 .72 2 .2 .89 3 .113	25 1 . 33 1 . 42 67 1 . 78 1 . 89 08 2 . 22 2 . 36 50 2 . 67 2 . 83 92 3 . 11 3 . 31 33 3 . 56 3 . 78	25 .26 .28 .50 .53 .56 1.001.061.11 .501.581.67 2.002.1112.22 2.502.642.78 3.003.173.33 3.503.693.89 4.004.224.44 4.504.755.00
8 HOUR DAY	12 hour	.03 .04 .06 .08 .13 .15 .19 .23 .25 .30 .31 .38 .38 .45 .44 .53 .50 .60	.05 .06 .09 .13 .19 .25 .28 .38 .38 .50 .47 .63 .56 .75 .66 .88 .75 1 .00	.08 .10 .16 .19 .31 .38 .47 .56 .63 .75 .78 .94 .94 1.13 1.09 1.31 1.25 1.50	1.31 1.50	.84 .94 1 1 .13 1 .25 1 1 .41 1 .56 1 1 .69 1 .88 2	2.062.25	.41 .44 . .81 .88 . 1.22 1.31 1. 1.63 1.75 1. 2.03 2.19 2. 2.44 2.63 2.	401.501.59 882.002.13 342.502.65 823.003.19	. 56 .59 .63 1 .13 1 .19 1 .25 1 .69 1 .79 1 .88 2 .25 2 .38 2 .50

WAGE TABLE-Continued WEEKLY 6 DAY WAGES COMPUTED ON A DAY BASIS

Days.	\$4.50							\$10.50									
1 day 2 days 3 " 4 " 5 "	\$.75 1.50 2.25 3.00 3.75	1.67 2.50 3.33	2.00 3.00 4.00	2.33 3.50 4.07	2.50 3.75 5.00	2.67 4.00 5.33	3.00 4.50 6.00	3.50 5.25 7.00	6.00 8.00	6.50 8.70	7.50 10.00	8.25 11.00	9.00 12.00	10.00	12.00 16.00	13.50 18.00	15.00

THE WORLD'S WORKERS

United States* 30,091,564 63.6 8,075,772 18.1 38,756,22 France. 12,908,879 65.48 6,804,403 34.52 19,713,28 Germany. 18,599,236 66.21 9,492,881 33.79 28,092,11 Belgium. 2,258,700 70.8 931,334 29.2 3,190,03	Country	Males.	Percentage of Total Occupied.	Females.	Percentage of Total Occupied.	Total Occupied.
United States*. 30,091,564 63.6 8,075,772 18.1 38,750,22 France. 12,908,879 65.48 6,804,403 34.52 19,713,28 Germany. 18,599,236 66.21 9,492,881 33.79 28,092,11 Belgium. 2,258,700 70.8 931,334 29.2 3,190,03	United Kingdom*	12,134,259	78.85	3,254,242	21.15	15,388,501
Germany 18,599,236 66.21 9,492,881 33.79 28,092,11 Belgium 2,258,700 70.8 931,334 29.2 3,190,03	United States*	30,091,564	63.6	8,075,772		38,756,223
Germany	France	12,908,879				19,713,282
Belgium			66.21			28,092,117
Austria. 7.791,776 57.82 5,684,997 42.18 13,476,77	Belgium	2,258,700	70.8	931,334		3,190,034
	Austria	7,791,776	57.82	5,684,997	42.18	13,476,773
Hungary				2,506,861		8,627,767
Italy	Italy	10,988,462	67.53	5,284,064	32.47	16,272,526

Number over 10 years of age occupied.

WORKERS IN THE UNITED STATES

WORKERS IN THE UNITED STATES

In the several States the proportion of the population ten
years of age and over engaged in gainful occupations in 1910
ranged from 46.9 per cent. in Iowa to 68 per cent. in Mississippi.
The States having the smallest proportions were Iowa, 46.9
per cent.; Kansas, 47 per cent.; Nebraska, 47.7 per cent.;
Utah, 47.9 per cent., and Indiana, 48 per cent. The States
having the largest proportions were North Carolina, 60 per cent.;
Georgia, 61.5 per cent.; Wyoming, 62.6 per cent.; Nevada,
64.3 per cent.; Alabama, 64.7 per cent.; South Carolina, 67.6
per cent., and Mississippi, 68 per cent. Except in three States—
Arizona, Montana, and North Dakota—there was an increase
from 1900 to 1910 in the proportion of the population ten years
of age and over engaged in gainful occupations. The States
showing the largest increases were Alabama, Arkansas, Georgia,
Mississippi, Nevada, North Carolina, South Carolina, and Mississippi, Nevada, North Carolina, South Carolina, and Телая.

Practically one-third (33.2 per cent.) of all gainful workers in the United States in 1910 were engaged in agriculture, forestry, and animal husbandry, and considerably more than one-fourth (27.9 per cent.) were engaged in manufacturing and mechanical industries. Thus over three-fifths of all gainful workers were occupied in these two general divisions of occupations.

TRADE UNION MEMBERSHIP

Country	Total Membership	Percentage of Membership to Total Population.
German Empire	3,791,665	5.8
United Kingdom	3,010,346	6.7
United States	2,810,420	2.2
France	1,029,238	2.5
Italy	817,034	2.4
Austria	421,905	1.4
Belgium	210,902	2.6
Netherlands	152,071	2.5
Denmark	142,786	4.6
Switzerland		2.3
Hungary	97,000	.4
Sweden	81,000	2.2

AVERTING STRIKES

averted by the hurried passage of the Newlands bill amending the Erdman Act and providing arbitration of wage disputes in a manner satisfactory to both railroad Presidents and the labor leaders. The points settled were:

First—Whenever a controversy arises between the railroads and their employes that cannot be settled by mediation and conciliation, the dispute is to be submitted to an arbitration concliation, the dispute is to be submitted to an arbitration board of six members, the employers and the employes, parties to the agreement to arbitrate, each naming two arbitrators, and the four arbitrators thus chosen being allowed by a majority vote to choose the remaining two arbitrators. If, within fifteen days, the four arbitrators fall to name the other two, the latter must be named by the Board of Mediation and Conciliation.

Second—The proposed Board of Mediation and Conciliation, instead of being under the Department of Labor. It that is

instead of being under the Department of Labor, is to be in-dependent of every Government department. The board will consist of a Commissioner of Mediation and Conciliation to be appointed by the President for a term of seven years and two other officials of the Government to be designated by the President

According to the law new, this board could be appealed to, to intervene in a labor dispute by either party, and would first use its best efforts, by mediation and conciliation, to bring nrst use its best efforts, by mediation and conciliation, to bring the disputants to an agreement. Failure would be followed by an attempt on the part of the Board to "induce the parties to submit their controversy to arbitration"; and, in case arbitration was agreed to, special boards of either three or six mediators would be chosen by the employers and the employes. Arbitration, under the new law, would be undertaken only after a definite agreement had been made by both parties, to abide by the decision of the arbitration board for a stated period.

abide by the decision of the arbitration board for a stated period. Three important clauses of the provisions of agreement which the arbitrating parties must sign are as follows:

(10).—Shall provide that the respective parties to the award will each faithfully execute the same.

(11).—Shall provide that the award and the papers and proceedings, including the testimony relating thereto, certified under the hands of the arbitrators and which shall have the force and effect of a bill of exceptions, shall be filed in the clerk's office of the District Court of the United States for the district wherein the controversy arises or the arbitration is entered into, and shall be final and conclusive upon the parties to the agreement unless set aside for error of law apparent on the records.

(12.)—May also provide that any difference arising as to the meaning or the application of the provisions of an award made by a board of arbitration shall be referred back to the same board or to a sub-committee of such board for a ruling, which ruling shall have the same force and effect as the original award; and if any member of the original board is unable or unwilling. That Federal officials are taking more interest in Labor meaning or the application of the provisions of an award made matters is proved from the fact that the present administration by a board of arbitration shall be referred back to the same is the first to have a separate department devoted to Labor. If it had not been for the timely action of the President of the ruling shall have the same force and effect as the original award; United Sates in calling a conference of those interested, the year 1913 might have witnessed one of the worst strikes in history—that of the trainmen of the Eastern railroads. This strike was as such original member was named.

*MARINE DISASTERS OF HALF A CENTURY

Year	Date	Steamer	TIMES A CENTURY	
1866	Oct. 3	Evening Star	Cause	Lives Lost
1867	Oct. 29	About 50	New York to New Orleans-foundered	250
1870	OCL. 29	About 50 vessels	Wrecked in West Indies by hurricane	1000
1873	April 2	City of Boston	Left New York—Never heard from	117
1874	Dec. 26	Atlantic—White Star	Wrecked off Nova Scotia	547
1875	May 7	Cospatrick.	Caught hre and sank off Auckland	476
1875	Nov. 4	Schiller—Hamburg	Wrecked in fog off Scilly Islands	200
1877	Nov. 24	Pacific	Collision off Cape Flattery	236
1878	Mar. 24	U. S. Huron	Wrecked off Coast North Carolina	110
1878	Sept. 3	Eurydice—British	Foundered near Isle of Wight	300
1878	Dec. 18	Princess Alice	Collision on Thames	700
1880		Byzantin—French.	Collision in Dardanelles	210
1881	Jan. 31	Atlanta—British	Left Bermuda—Never heard from	290
1883	Aug. 30	Teuton	Wrecked off Cape Good Hope	200
1884	July 3	Daphne	Turned turtle in Clyde	124
1884	Jan., 18	City of Columbus	Wrecked off Gay Head Light, Mass	99
1884	April 19	Ponema—State of Florida	Collision in mid-ocean	145
1886	July 23	Gijon-Spanish and Lux-British	Collision off Finistere	150
	Mar. 14	Oregon—Cunard	Collision near Long Island—Sunk	None
1887	Jan. 29	Kapunda	Collision off Coast of Brazil	300
1887	Nov. 15	Wah Young-British	Caught fire in Chinese Waters	400
1888	Sept. 13	Sud America—Italian and La France	Collision near Canary Islands	89
1890	Feb. 17	Duberg—British	Wrecked in China Sea	400
1890	Sept. 19	Ertogrul—Turkish	Foundered off coast of Japan	540
1891	Mar. 17	Utopia—Anchor and Anson—British	Collision off Gibraltar	574
1892	Jan. 13	Namehow	Wrecked in China Sea	414
1892	Oct. 28	Romania—Anchor	Wrecked off Corsica	113
1893	Feb. 8	Trinalria—Anchor	Wrecked off Spain	115
1893	June 22	Victoria—British	Collision with Camperdown off Syria	357
1894	June 25	Norge	Wrecked on Rockall Reef, N. Atlantic	550
1895	Jan. 30	Elbe-German	Collision with Cathrie, North Sea	330
1897	Mar. 7	Ville de St. Nazaire	Burned off Cape Hatteras	40
1898	July 4	La Bourgogne	Rammed off Sable Island	560
1904	July 3	Norge	Sunk at sea	750
1904	June 15	General Slocum	Burned in East River	958
1905	Sept. 12	Mikasa—Japanese	Sunk after explosion in Sasebo harbor	599
1907	Feb. 12	Larchmont and Harry Hamilton	Collision in Long Island Sound	183
1907	Feb. 21	Berlin-British	Wrecked off Coast of Holland	142
1907	Feb. 24	Imperatrix—Austrian	Wrecked on Cape of Crete, sunk	137
1907	Mar.	Jena-French Warship	Blown up at Toulon	120
1907	July	Columbia	Sunk off Coast of California	50
1908	April 25	Gladiator—British	Rammed by St. Paul off Isle of Wight	30
1909	Jan. 24	Republic	Rammed by Florida off Nantucket	. 8
1911	Aug. 9	Emil	Wrecked off Straits of Gibraltar	93
1911	Nov. 23	Roumania	Wrecked in Adriatic Sea	60
1912	Mar. 16	Oceana	Lost off Beachy Head, England	14
1912	April 15	Titanic	Collision with iceberg off Cape Race	1507
1913	Oct. 10	Volturno	Fire in Mid-Atlantic	136
1914	Jan. 30	Monroe-Old Dominion Line	Collision with Nantucket off Virginia Coast	49
1914	May 29	Empress of Ireland	Collision with Storstad in St. Lawrence	1,024
1915 J	July 24	Eastland	Foundered in Chicago	1500

*For marine disasters of the European War see Chronological History of European War.

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TRANSATLANTIC STEAMSHIP RECORDS

Best records between New York and European ports east or west. Date Persia..... Persia Scotia City of Brussels Baltic City of Berlin Germanic 48 48 37 53 23 Britannic..... 10 Arizona.....Alaska.... Oregon...... Umbria..... 42 55 Etruria Majestic Teutonic 16 14 12 City of Paris.....Campania Lucania.... 0

1910.... In 1492, Christopher Columbus, on the Santa Maria, made the first voyage across the Atlantic in 71 days.

UNDER WATER 6 1-2 MINUTES RECORD

When a man named Enocs remained under water for four minutes and forty-six seconds in March, 1896, the swimming world was astonished. A Frenchman named Poulyuen tried to break this record in 1907. He remained under water for four minutes and thirty-one seconds and then came up more dead than alive. On Nov. 2, 1912, Poulyuen succeeded in breaking the record by remaining under for six minutes and thirty seconds. seconds.

THE OLDEST ORDER

What is the oldest order in existence? The claim is made for that of the Holy Sepulchre, the grand officership of which has just been conferred by the Pope on a member of the Irish Nationalist party, Sir Thomas Grattan Esmond. It appears that no date or the name of a founder can be assigned to the Order of the Holy Sepulchre, though there is a legendary tradition that traces its origin to the time of Charlemagne. In the middle of the last century, however, when the Latin Patriarchate of Jerusalem was re-established, the office of grand master of the order was transferred to it by Pope Pius the Ninth, who many years later, in 1863, created by statute three ranks of the order—the Grand Cross, Commander, and Knight. The costume is a white cloak, with the Cross of Jerusalem in red enamel. The Pope himself is grand master of the order.

STATE FACTS

HIGHEST MEASUR	ED AL	TITUDE IN EACH STATE	
State and Point	Feet	State and Point	Feet
Alabama, Cheawha mountain	2,407	Montana, Granite peak	12,834
Alaska, Mount McKinley	20,300	Nebraska, plains in southwestern corner	5,300
Arizona, San Francisco peak	12,611	Nevada, Wheeler peak	13,058
Arkansas, Magazine mountain	2,800	New Hampshire, Mount Washington	6,293
California, Mount Whitney	14,501	New Jersey, High Point	1,800
Colorado, Mount Elbert	14,421	New Mexico, peak near Truchas peak	13,306
Connecticut, Bear mountain	2,355	New York, Mount Marcy	5,344
Delaware, near Brandywine	440	North Carolina, Mount Mitchell,	6,711
District of Columbia, Fort Meno	421	North Dakota, south part of Bowman county	3,500
Florida, near Mount Pleasant station	301	Ohio, 11/2 miles east of Bellefontaine	1,540
Georgia, Brasstown Bald mountain	4,768	Oklahoma, south of Kenton	4,700
Idaho, Hyndman peak	12,078	Oregon, Mount Hood	11,225
Illinois, Charles mound, Jo Daviess county	1,241	Pennsylvania, Blue Knob	3,136 80 5
Indiana, Carlos City	1,285	Rhode Island, Durfee hill.	3,548
Iowa, five miles southeast of Sibley	1,670	South Carolina, Sassafras mountain	7.244
Kansas, west boundary no. of Arkansas river	4,135	South Dakota, Harney peak	6,636
Kentucky, The Double, Harlem county	4,100 400	Tennessee, Mount Guyot	8,690
Louisiana, summits in western parishes	5,268	Texas, El Capitan, Guadalupe mountain	13,498
Maine, Mount Katahdin (west)	3,400	Utah, Kings Peak	4,364
Maryland, Backbone mountain	3,535	Virginia, Mount Rogers	5,719
Michigan. Porcupine mountain	2,023	Washington, Mount Rainier	14,470
Minnesota, Misquah hills, Cook county	2,400	West Virginia, Spruce Knob	4,860
Mississippi, near Holly Springs	602	Wisconsin, Rib hill, Marathon county	1,940
Missouri. Tom Sauk mountain	1,800	Wyoming, Mount Gannett	13,785
And the state of t	_,000		

		STATE NICKNA	1019	S AND	FLOWERS		
State	Nickname	Flower		State	Nickname	Flower	
Alabama	.Cotton state	Goldenrod	,	Missouri.		Goldenrod	
		Sequoia cactus		Nebraska.	Silver state	Goldenrod	
		Apple blossom		Nevada	Silver state		
California	.Golden state	Poppy			pshireGranite state		
Colorado	. Centennial state	Poppy Columbine		New Jerse	eyJersey Blue state	Sugar maple	(tree
Connecticut	.Nutmeg State			New York	Empire state	Rose	
Delaware	.Blue Hen state	Peach blossom		North Car	rolinaOld North state		
Florida	.Peninsula state				kotaFlickertail state		
Georgia	.Cracker state	Cherokee rose		Ohio	Buckeye state		
Idaho		Syringa		Oklahoma	k	Mistletoe	
Illinois	.Sucker state	Violet		Oregon'	Beaver state	Oregon grape	
Indiana	. Hoosier state			Pennsylva	ıniaKevstone state		
Iowa	. Hawkeye state	Wild rose		Rhode Isla	andLittle Rhody	Violet	٠
Kansas	.Sunflower state	Sunflower.			rolinaPalmetto state		
Kentucky	.Blue Grass state .Pelican state			South Dal	kotaSwiage Cat state		
Louisiana	.Pelican state	Magnolia		Tennessee	Bend state		
Maine	Pine Tree state	Pine cone		Texas	Big Bend state Lone Star state	Bluebonnet	
Maryland	Old Line state			Utah		Sego lilv	
Massachusetts	Bay state			Vermont.	Green Mountain state	Red clover	
Michigan	Wolverine state	Apple blossom		Virginia	The Old Dominion		
Minnesota	Gopher state	Moccasin		Washingt	on Chinook state	Rhododendro	n
Mississippi	Bayou state	Magnolia		West Virg	giniaThe Panhandle		
Montana	Stub Toe state	Bitter root	13	Wisconsin	Badger state		

FORMS OF CAPITAL PUNISHMENT IN UNITED STATES

TexasHanging UtahOption—Shooting or hanging VermontElectrocution VirginiaElectrocution	(Life Imprisonment)

THE CONSCIENCE FUND

	•		DATA	0	F STATES				
STATE	Admitted to the Union	Area. Sq. M.	Rep. Ele Cong. tvote		STATE	Admitted to the Union	Area. Sq. M.	Rep.	Elec.
Alabama Arizona Arkansas California Colorado Connecticut Delaware Florida.	Feb. 14, 1912. June 15, 1836 Sept. 9, 1850 Aug. 1, 1876 *Jan. 9, 1788 *Dec. 7, 1787 March 3, 1845	52,250 113,020 53,850 158,360 103,925 4,990 2,050 58,680	1 7	12 3 9 13 6 7 3	Nebraska. Nevada New Hampshire. New Hersey New Mexico New York North Carolina. North Dakota.	Oct. 31, 1864 *June 21, 1788 *Dec. 18, 1787 Jan. 6, 1912 *July 26, 1788 *May 23, 1785	110,700 9,305 7,815 122,580 49,170 52,250	6 1 2 12 1 43 10	8 3 4 14 . 3 45
Georgia. Idaho . Illinois . Indiana . Iowa . Kansas .	*Jan. 2, 1788 July 3, 1890 Dec. 3, 1818 Dec. 11, 1816 March 3, 1845	59,475 84,800 56,650 36,350 56,025 82,080	12 2 27 13 11	14 4 29 15 13	Ohio Oklahoma Oregon Pennsylvania Rhode Island	Nov. 29, 1802 Nov. 16, 1907 Feb. 14, 1859 *Dec. 12, 1787 *May 29, 1790	41,060 70,430 96,030 45,215 1,250	3 22 8 3 36 3	24 10 5 38
Kentucky Louisiana. Maine Maryland Massachusetts Michigan Minnesota.	Feb. 4, 1792 April 8, 1812 March 3, 1820 *April 28, 1788 *Feb. 6, 1788 Jan. 26, 1837	40,400 48,720 33,040 12,210 8,315 58,915 83,365	11 8 4 6 16 13	13 10 6 8 18 15	South Carolina. South Dakota. Tennessee. Texas. Utah. Vermont Virginia.	Nov. 2, 1889 June 1, 1796 Dec. 29, 1845 Jan. 4, 1896 Feb. 18, 1791 *June 26, 1788	77,650 42,050 265,780 84,970 9,565 42,450	7 3 10 18 2 2 10	9 5 12 20 4 4 12
Mississippi. Missouri. Montana.	Dec. 10, 1817 March 2, 1821 Nov. 8, 1889	46,810 69,415 146,080	8 16 2	10 18 4	Washington	Dec 31, 1862 May 29, 1848 July 11, 1890	69,180 24,780 56,040 97,890	5 6 11 1	7 8 13 3

institution faccording to Reapportionment act approved Aug. 8, 1911.

RECORDS OF POLAR EXPEDITIONS

Year Explorer	Deg. Min.
1871—Captain Hall	. 82 16
1876—Captain Nares	, 83 10
1879-Lieutenant De Long	. 77 15
1882—Lieutenant Greely	. 83 24
1890-Lieutenant Peary	, 83 -50
1891-Lieutenant Peary	83 24
1895—Fridtjof Nansen	. 86 14
1900-Duke d'Abruzzi	. 86 - 33
1902—Lieutenant Peary	
1904—Anthony Fiala	
1906—Commander Peary	
1909—Commander Peary (April 6)	. 90 The Pole
ANTARCTIC	
1774—Captain Cook	. 71 15
1823—Captain Weddell	. 74 15
1842—Captain Ross	
1895—Borchgrevink	
1898—De Gerlache	71 36
1900—Borchgrevink	. 78 50
1902—Captain Scott	82 17
1909—Lieutenant Shackleton	
1911—Capt. Raold Amundsen (Dec. 14)	
Tall Cabe Trans transmiser (pece anti-	44 4044 1

Although Amundsen discovered the pole Dec. 14, 1911 it was not known to the civilized world for many days. In the final stage of the journey to the pole the party numbered five men, namely Capt. Amundsen and Hassel, Wisting, Bjaaland and Hansen. They had fifty-two dogs, four sledges and provisions for four months. Eleven of the dogs survived the journey.

BIRTH STONES AND THEIR MEANING JANUARY—Garnet. Constancy and fidelity. FEBRUARY—Amethyst. Sincerity. MARCH—Bloodstone. Courage. Presence of mind. APRIL.—Diamond. Innocence. MAY—Emerald. Success in love. JUNE—Agate or Pearl. Health and long life. JULY—Ruby or Carnelian. Contented mind. AUGUST—Sardonyx. Conjugal felicity. SEPTEMBER—Sapphire. Antidote against madness. OCTOBER—Opal. Hope.
NOVEMBER—Topaz. Fidelity.
DECEMBER—Turquoise. Prosperity.

The jewellers of New York have united in a movement to establish a new standard list of Natal Stones. For December, January and February, the colder tones of the diamonds, aquamarine and sapphire are suggested. March, April and May are represented by the different shades of green, peridot, olive and emerald; the summer months, June, July and August, by the tournaline, ruby and garnet, and autumn by vintage colors in the tonez, ziricon and amethyst. the topaz, ziricon and amethyst.

WEDDING ANNIVERSARIES

First year, cotton wedding; second, paper; third, leather; fourth, book; fifth, wooden; sixth, garnet; seventh, woolen; eighth, bric-a-brac; ninth, topaz; tenth, tin; twelfth, silk and fine linen; fifteenth, crystal; twentieth, china; twenty-fifth, silver; thirtieth, pearl; thirty-fifth, sapphire; fortieth, ruby; fiftieth, golden; seventy-fifth, diamond.

LORE OF THE WEDDING RING

In the Isle of Man the wedding-ring was formerly used as an In the Isle of Mat the wedding-ring was fortherly used as an instrument of torture. Cyril Davenport, in his book on "Jewellery," remarks that there once existed a custom in that island, according to which an unmarried girl who had been offended by a man could bring him to trial, and if he were found guilty she would be presented with a sword, a rope, and a ring.

With the sword she might cut off his head, with the rope she might hang him, or with the ring she might marry him. It is said that the last named punishment was invariably inflicted.

The wedding-ring was anathema to the early Puritans, who regarded personal adornment as one of the many snares of Satan. In the old English marriage service it was the custom for the bridegroom to put the ring on the thumb of the bride, saying "In the name of the Father," then on the next finger, saying "and the Son," and then on the third finger, saying "and of the Holy Ghost," finally on the fourth finger, with the word "Amen."

The ring was left there because, as the Sarum rubric says, "a vein proceeds thence to the heart." In the modern marriage service the ring is placed at once upon the third finger, the invocation to the Trinity being understood.

AVERAGE TEMPERATURE AND PRECIPITATION AT U.S. WEATHER STATIONS

AVERAGE TEMPERAT	UK	E AN	ND F	KEC	HPI.	I'A'I'	ION	AT	U.S	. WE	ATE	IER	SIA	TION	5	
Station	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual	* Lowest record	*Highest record	Annual
Abilene, Tex. Albany, N. Y. Amarillo, Tex. Atlanta, Ga. Bismarck, N. Dak Boise, Idaho Boston, Mass Buffalo, N. Y. Charlotte, N. C. Chicago, Ill. Cleveland, Ohio Denver, Colo. Des Moines, Iowa Dodge, Kas. Dubuque, Iowa. Duluth, Minn. Eastport, Me El Paso, Tex Fresno, Cal. Galveston, Tex. Green Bay, Wis. Harrisburg, Pa. Havre, Mont. Helena, Mont Huron, S. Dak Indianapolis, Ind. Jacksonville, Fla. Jupiter, Fla. Jupiter, Fla. Jupiter, Fla. Jupiter, Fla. Louisville, Ky. Lynchburg, Va. Montgomery, Ala. New Orleans, La. New Orleans, N. Y. Northfield, Vt. Port Huron, Mich Portland, Ore. Rapid City, S. Dak Red Bluff, Cal St. Louis, Mo St. Paul, Minn. Salt Lake City, Utah San Antonio, Tex. San Francisco, Cal. Santa Fe, N. Mex Sanl Francisco,	38 171 154 366 483 306 153 307 216 317 320 246 311 320 246 311 221 329 445 311 229 457 477 477 477 477 477 477 477	*F. 45** 45** 44** 425** 44** 425** 34** 425** 34** 425** 34** 425** 34** 425** 34** 425** 34** 34** 34** 34** 34** 34** 34** 3	552 452 452 452 453 31 344 336 423 344 336 423 344 337 344 346 347 347 347 347 347 347 347 347 347 347	646 551 430 545 546 548 554 448 554 448 554 448 554 448 554 448 554 448 554 448 554 448 554 448 554 448 554 448 554 448 554 448 554 448 554 448 554 448 554 668 668 668 668 668 668 668 668 668 66	°F. 729 640 755 857 640 652 762 676 674 779 685 575 646 652 762 676 676 676 675 575 665 676 676 676 676	7.68 726 646 666 676 668 666 773 758 840 761 775 808 876 815 770 808 876 815 770 808 876 815 777 818 818 818 818 818 818 818 818 818	87.76 87.77	81 87 77 76 68 82 87 66 69 81 83 77 75 66 69 87 77 75 66 69 87 77 75 66 69 87 77 75 66 69 87 77 75 66 69 87 77 75 66 69 87 77 77 77 77 77 77 77 77 77 77 77 77	*F. 74 62 68 63 65 66 67 77 65 65 66 66 77 70 68 66 67 77 66 67 77 67 68 67 68 67 77 68 67 68 67 68 68 69 69 69 69 69 69 69 69 69 69 69 69 69	\$\frac{6}{50}\$ \$\frac{6}{50}\$ \$\frac{6}{44}\$ \$\frac{6}{50}\$ \$\frac{6}{52}\$ \$\frac{6}{51}\$ \$\frac{5}{52}\$ \$\frac{6}{52}\$ \$\frac	*F. 538 444 526 441 39 37 40 36 39 37 515 632 422 427 427 526 466 466 614 432 525 488 389 57 37 414 465 66 388 445 55 638 31 31 40 59 66 388 445 55 638 31 31 44 45 55 638 31 31 44 45 55 638 31 31 44 45 55 638 31 31 44 45 55 638 31 31 44 45 55 638 31 31 44 45 55 638 31 31 44 45 55 638 31 31 44 45 55 638 31 31 44 45 55 638 31 31 44 45 55 638 31 31 44 45 55 638 31 31 44 45 55 638 31 31 41 41 41 41 41 41 41 41 41 41 41 41 41	*F. 458 345 152 322 343 229 332 244 347 556 328 349 446 368 349 341 255 332 341 255 338 349 345 348 349 349 349 349 349 349 349 349 349 349	61 49 47 65 44 8 49 41 47 65 44 8 45 2 45 2 45 2 45 2 45 2 45 2 56 68 8 2 41 48 45 2 45 2 45 2 45 2 45 2 45 2 45 2 4	°F	°F- 1100 104 105 100 107 111 104 95 102 103 99 105 109 108 106 109 93 1115 99 108 106 100 101 108 106 100 101 108 106 100 101 108 106 100 101 108 106 100 101 108 107 102 100 108 107 102 100 108 107 102 100 108 107 102 100 108 107 102 100 108 107 102 109 107 102 100 108 107 107 102 108 107 109 109 107 1000 108 107 107 109 109 107 1000 108 107 1000 108 107 109 109 109 109 109 109 107 1000 108 107 1000 108 107 1000 108 107 109 109 109 109 109 109 109 109 109 109	Ins. 7 24.7 4 22.6 4 6 12.7 4 3.3 3.3 0 14.0 4 22.8 8 9.7 1 12.1 5 3 2 2 3 4 .0 9 4 3 .3 3 5 .0 14.1 5 3 .2 2 3 4 .0 9 4 3 .3 1 3 7 .4 7 12.2 1 1 .1 5 3 .2 2 3 7 .0 4 3 .0 2 9 .6 1 1 2 .7 3 0 .6 1 1 2 .7 3 0 .6 1 1 2 .7 3 0 .6 1 1 2 .7 3 0 .6 1 1 2 .7 3 0 .6 1 1 2 .7 3 0 .6 1 1 2 .7 3 0 .6 1 1 2 .7 3 0 .6 1 1 2 .7 3 0 .7 2 2 .7 3 0 .6 1 1 2 .7 3 0 .7 2 2 .7 3 0 .7

Temperature extremes include 1914

AVERAGE ANNUAL TEMPERATURE AND RAINFALL OF FOREIGN

Cities	Temperature Fahr.	Rainfall Inches	Cities	Temper- ature Fahr.	1	Cities	Temper- ature Fahr.	Rainfall Inches
Alexandria	49.9 63.0 48.2 72.0 81.3 50.0 51.9 62.8 72.2 82.4 71.0 62.0 56.5 46.6 50.1	10 30 55 70.3 29 17 34.1 1.3 76 39 25 19	Edinburgh. Florence. Frankfort. Geneva. Glasgow Hamburg. Havana. Hongkong. Honolulu Lisbon. London. Madrid. Manila Melbourne. Montreal.	59.2 50.0 52.7 49.8 47.0 79.1 73.0 75.0 61.4 50.8 58.2 78.4	38 41 32 45.4 46.5 101 27 25 9 55.2 29 39.3	Moscow. Munich. Naples. Paris. Peking. Quebec. Rio de Janeiro. Rome. Rotterdam. St. Petersburg. Sydney. The Hague. Tokio. Venice. Vienna.	48.4 60.3 51.3 53.0 40.3 77.2	21.1 30.1 19.6 27.2 30.6 23.18.8 49.6 60.4

The wettest continent is So. America, with an average rainfall of 65.7 inches. Africa has an average rainfall of 32.5 inches. North America and Europe each about 28.7 inches, and Asia 21.7 inches. Australia is somewhat less.

COLDEST PLACE ON EARTH

The lowest temperature ever recorded was at Werchojansk, in the interior of Siberia, January 15, 1885. It was ninety degrees and a fraction below zero. In that section, the earth freezes to a depth of a hundred feet and in the warmest season it never thaws.

CAUSE OF TIDES

The theory of earth tides is not a new one, as the varying effect of the sun and the moon on the earth is tremendous. Observations have been taken eighty-two feet below the surface with a horizontal pendulum so delicately constructed that measurements with it could be taken of variations one-hundred-thousandth part of a second. The earth appears to be affected by the sun and moon twice in each twenty-four hours, the moon exerting twice the influence of the sun. The whole shape of the earth is affected, and not merely the crust. It is an actual deformation of the ball, setting up bodily tides, which follow the direction of the ordinary ocean tides in half-day periods. Scientists, who have made this subject a life-long study, have come to the conclusion that the earth has a degree of rigidity equivalent to that of a ball of steel of the same size, but the evidence is against the idea that there is a viscous stratum between the crust and the solid central core. There is now no doubt the earth flows and ebbs much like the sea.

HEIGHT AND LENGTH OF WAVES OF THE SEA HEIGHT AND LENGTH OF WAVES OF THE SEA
The height of the waves in a storm rarely exceeds 12 feet;
in very bad disturbances on the high sea they may reach a
height of 50 feet. Their length is never over 600 feet. In the
southern parts of the Pacific waves 43 feet in height have been
measured. In the southern part of the Atlantic 39 feet, and in
the Bay of Biscay and in the Mediterranean 12 feet. At places
where the waves strike at an object, such as a lighthouse, they
rise, of course, much higher—at Bell Rock, for instance, over
100 feet and at Unst over 200. On the open sea, however, they never rise over 50 feet.

CAUSE OF THUNDER AND LIGHTNING

CAUSE OF THUNDER AND LIGHTNING
When a thunderstorm occurs, a stress is thrown on the air,
either between two clouds or between a cloud and the earth,
and when this stress has reached a pressure of about half a
gramme weight to the square inch, the air is literally cracked.
The line of the fracture is illuminated by the intense heat caused,
rendering the air particles incandescent, and we see this and
call it lightning. This is all lightning is; there is no "bolt"
and no transference of matter from one place to another. To
speak or write of an object as being "struck" by lightning is
calculated to produce a wrong impression, because it conveys
the idea of a ponderable object giving a blow. It is literally
an incorrect term, but we are forced to employ it because it
has been so long in use. has been so long in use.

ORIGIN OF THE NAMES OF THE DAYS
The week was unknown to the ancients. It was gradually

The week was unknown to the ancients. It was gradually adopted under the later emperors.

The arrangement of the heavenly bodies, according to their distances from the earth, is in the following order: Saturn, Jupiter, Mars, the Sun, Venus, Mercury, the Moon; and it was a principle of the ancient astrology that these planets presided in succession over the hours of the day, and from which the Latin designations given to days of the week have been derived; and from these have been formed the modern names used in different countries either by lightly translation or in derived; and from these have been formed the modern names used in different countries, either by literal translation, or, in the Teutonic tongues, by the substitution, in some cases, of the corresponding deity of northern paganism for the classical god. Sunday—Is so called because it was anciently dedicated to the worship of the Sun.

Monday—Means literally the Day of the Moon.

TUESDAY—Was dedicated to Tuisco, the Mars of our Saxon ancestors, the deity that presided over combats, strife and litigation. Hence, in England, Tuesday is assize day; the day for combat, or commencing litigation.

WEDNESDAY—Is so called from Wodin, or Odin, a deity or chief among the northern nations of Europe.

THUESDAY—Was named by the Saxons from Thor, the old

TRURSDAY—Was named by the Saxons from Thor, the old Teutonic god of thunder. FRIDAY-Is from Frea or Friga, a goddess of the old Saxon

mythology.

SATURDAY—Means simply Saturn's day, the name being derived from the deity of that name.

THE DEEPEST POINT IN THE OCEAN

The deepest known point in the ocean is near the Island of Guam, in the Pacific. Here the United States Ship New found bottom at 5,269 fathoms (six miles), or 2,612 feet more than the height of Mount Everest, the world's highest peak. Life has been found to exist at a depth of 4,173 fathoms.

By a simple rule the length of the day and night, any time of the year, may be ascertained by simply doubling the time of the sun's rising, which will give the length of the night; and doubling the time of setting, will give the length of the day.

Greenwich time was officially adopted by France on March 10, 1911. In future Paris and London time will be exactly the same.

ALUMINUM
Aluminum is a simple elementary substance. It is very abundant in the earth, being the third element in quantity. Oxygen is the most abundant. Nearly half of the entire earth is oxygen. A little more than a quarter of the earth is silicon. After these come aluminum, of which nearly 8 per cent of the earth is composed, and then iron, of which nearly 5½ per cent of the earth is composed. All clay contains a large proportion of aluminum. However, aluminum is not prepared from clay. It has not been possible to obtain it from clay as cheaply as from bauxite and cryolite.

THE HAGUE TRIBUNA

The Permanent Court of Arbitration of the Hague consists of
representatives nominated by the Governments of 44 nations
(not more than four representatives from each; *) and in the
event of the Court being called upon to hear a suit, it is neces-
sary for the contending parties (a) to agree upon the subject-
matter of dispute, (b) to appoint arbitrators and, if necessary,
an umpire, (c) to submit the case through counsel or agents.
The Court meets at the Palace of Peace at the Hague, opened in
1913, the building having been erected mainly at the expense of
Andrew Carnegie, and each of the nations interested having
contributed to its embellishment.

DECISIONS OF THE COURT

DECISIONS OF THE COURT

1902, U. S. v. Mexico (Pious Funds); 1904, Creditor Nations
v. Venezuela (Preferential Claims); 1905, United Kingdom,
France and Germany v. Japan (Perpetual Leases); 1909, Germany v. France (Casablanca deserters); 1909, United Kingdom
v. France (Muscat Dhows); 1909, Norway v. Sweden (Maritime
Boundary); 1910, U. S. v. United Kingdom (North Atlantic
Fisheries); 1910, U. S. v. Venezuela (Orinoco S. S. Company);
1911, France v. U. K. (Savarkar incident); 1912, Italy v. Peru
(Canevaro claim); 1913, Russia v. Turkey (arrears of interest);
1913, France v. Italy (seizure of S. S. Carthage and Manouba).
Cases pending: United Kingdom, France and Spain v. Portugal
(contested religious goods); France v. Peru (claims French
creditors). creditors).

OFFICERS OF THE COURT

Secretary-General, Baron Michiels van Verduynen.
First Secretary, Jonkheer W. Röell.
President of the Administrative Council, The Netherlands Minister of Foreign Affairs.

MEMBERS OF THE COURT

The Court consists of the following members (with date of appointment):-UNITED STATES OF AMERICA

George Gray			Dr. Von Martitz	30 Nov.	1900
Oscar S. Straus9			Dr. de Staff	19 May.	1911
Elihu Root	Dec.,	1910	Dr. Von Treutlein-Moerdes	21 Tan	1914
John Bassett Moore 27	Nov.,	1912	GREAT BRITAIN	,	
ARGENTINA			Hon. Sir Charles Fitzpatrick	20 04	1007
Estanislas S. Zeballos					
Luis Maria Drago	July,	1907	Earl of Desart.	1 Jan.,	1910
Carlos Rodriguez Larreta	July,		Rt. Hon. Viscount Bryce	28 Jan.,	1913
Joaquin V. Gonzalez	Oct		GREECE		
AUSTRIA-HUNGARY			Denis Stephanos	29 Dec.,	1901
Henri Lammasch4	Dec	1000	Georgios Streit	29 Dec.,	1901
Albert de Berzeviczy			Michel Kebedgy	29 Dec.,	1901
Baron Ernest de Plener			Nicolas Politis	18 June.	1914
François Nágy 4			GUATEMALA		
BELGIUM	DCC.,	1712	Antonio Batres Jauregui	9 T-L	1010
	0-4	1000	Carlos Salazar	8 Feb.,	
Baron Descamps	OCE.,	1900	Antonio Gonzalez Saravia	o rep.,	
Ernest Nijs	Sept.,	1905	Alberto Mencos.		1913
Arendt	Jan.,	1997		o july,	1913
Jules Van den Heuvel	TAOA"	1912	HAITI		
BOLIVIA			Jaques Nicolas Leger	21 July,	1908
Severo Fernandez Alonso		1907	Solon Menos	21 July,	1908
Claudio Pinilla	Sept.,	1907	F. D. Legitime.	21 July,	1908
Ignacio Calderón	Feb.,	1910	Tertullien Guilbaud	21 July,	1908
Eliodoro Villazón 1	Dec.,	1913	ITALY		
BRAZIL			Victor Emmanuel Orlando	20 April	. 1910
Lafayette Rodrigues Pereira	Sept	1907	Tommaso Tittoni	24 April	1911
Ruy Barbosa	Sept	1907	Carlo Schanzer	12 Dec	1912
Clovis Bevilaqua	Sept.	1907	TAPAN	,	
Ubaldino do Amaral Fontoura	Feb.	1914	Baron Itchiro Motono	30 Nov.	1900
BULGARIA	2 00.,		LUXEMBURG		, 2,00
Stoyan Daneff			Henri Vannerus	10 Oot	1002
Dimitri Stancioff	Troler	1001		10 Oct.,	1903
Nicolas Ghénadieff	July,		T T T:		
	July,	1919	Jose Ives Limantour	7 Mar.,	1907
CHILE			Pablo Macedo	7 Mar.,	, 1907
Carlos Concha	Oct.,	1907	Carlos Pereyra	27 Dec.,	1913
Miguel Cruchaga	Oct.,	1907	Joaquin D. Cassasus	2 June,	1908
Manuel Alejandro Alvarez	Oct.,	1907	NETHERLANDS		
Eliodoro Yafiez 31	May,	1913	Jonkheer A. F. de Savornin Lohman	1 Nov	1900
CHINA			Jonkheer G. L. M. H. Ruys de Beerenbrouck	1 Nov	1000
Wu Ting-fang 4	April.	1905	P. W. A. Cort van der Linden	1 Most	1012
Hoo-Wei-Teh	April.	1910	Jonkheer A. P. C. van Karnebeek	24 Oct	1012
		ost her	e not appointed any members	ar occ.,	1713

E TRIBUNAL		
Liou She-shun	20 April, 20 April,	1910 1910
General Jorge Holguin	26 Mar.,	1908
Marcelino Hurtago	26 Mar.,	1908
Felipe Diaz Erazo	26 Mar., 26 Mar., 26 Mar.,	1908
CUBA		
Antonio Sanchez de Bustamante Manuel Sanguily	11 Jan.,	1908 1908
Cosme de la Torriente	29 Jan.,	1914
Juan de Dios Garcia Kohly	11 Jan., 11 Jan., 29 Jan., 3 May,	1915
DENMARK		4040
J. H. Deuntzer	14 Oct., 14 Oct.,	1910 1910
Axel Vedel	14 Oct.,	1910
D. Nyholm	9 Oct.,	1913
DOMINICAN REPUBLIC	46.0-4	4007
Apolinar Tejera	16 Sept., 13 May,	1907 1914
Mr. Cabral i Baez	13 May.	1914
Mr. de J. Troncaso de la Concha	13 May,	1914
ECUADOR	40 BT	1907
Honorato Vasquez	18 Nov., 18 Nov.,	1907
Gonzalo F. Côrdóva	30 Jan., 30 Jan.,	1914
Augusto Aguirre Aparicio	30 Jan.,	1914
Total Poursois	16 Nove	1000
León Bourgeois	21 May.	1905
A. Decrais. Baron d'Estournelles de Constant	16 Nov., 21 May, 16 Nov.,	1900
Louis Renault	16 Nov.,	1900
Dr. KriegeGERMANY	30 Nov.,	1006
Dr. Von Martitz	30 Nov	1000
Dr. Von Martitz. Dr. de Staff. Dr. Von Treutlein-Moerdes.	19 May,	1911
	21 Jan.,	1914
GREAT BRITAIN Hon. Sir Charles Fitzpatrick	30 Sept.,	1007
Earl of Desart Rt. Hon. Viscount Bryce	1 Jan.,	1910
	1 Jan., 28 Jan.,	1913
Denis Stephanos	20 D	4004
Georgios Streit	29 Dec., 29 Dec.,	1901 1901
Michel Kebedgy	29 Dec.,	1901
Nicolas Politis	18 June,	1914
Antonio Batres Jauregui	8 Feb.,	1010
Carlos Salazar	8 Feb.,	1910 1910
Antonio Gonzalez Saravia	5 July, 5 July,	1913
Alberto Mencos	5 July,	1913
Taques Nicolas Leger	21 July,	1908
Jaques Nicolas LegerSolon Menos	21 July,	1908
F. D. Legitime.	21 July, 21 July, 21 July, 21 July,	1908
Tertullien Guilbaud.	21 July,	1908
Victor Emmanuel Orlando	20 April,	1910
Tommaso Tittoni.	24 April,	1911
Carlo Schanzer	12 Dec.,	1912
Baron Itchiro Motono	30 Nov.,	1900

Montenegro and Paraguay have not appointed any members.

NICARAGUA		Salvador Rodriguez Gonzalez	2 Mars	1000
Désiré Pector 3 Mar.,	1908	Alonso Reyes Guerra	Z 190V.,	1909
Simon Planas Suarez			/ Aug.,	1911
Léon Vallez 6 July,	1014	SERBIA		
	7212	George Pavlovitch	16 April.	1901
NORWAY		Milenko R. Vesnitch	6 April	1901
George Francis Hagerup	1903	EIAM	. u npan,	
Sigurd Ibsen	1006	Corrections d'Orell	0.7	4004
H. J. Horst 31 Mar.,	1906	Corragioni d'Orell	y June,	1901
PANAWA		Jens I. Westengard	6 Mar.,	1911
Belisario Porras	1011	SPAIN		
Ramon M. Valdés	1911	E. Dato y Iradiez	O Tan.	1907
samon Mr. vardes, 12 July,	1919	Kafael M. de Labra	10 Tan	1007
PERSIA		Manuel Garcia Prieto, Marquis de Alhucemas. 1	1 Ian	1013
Mirza Samad-Khan Momtazos-Saltaneh		Juan Alvarado y del Saz	O Mary	1016
Mirza Hassan Khan, Mouchir ul Dovleh 12 May.	1005		y May,	1910
Minza Hassan Khan, Modelin di Dovien 12 May,	1905	SWEDEN		
PERU		Knut Hjalmar Leonard de Hammarskjöld	2 Dec.	1904
Ramán Ribeyro 23 May,	1910	Johan Fredrik Ivar Afzelius 1	8 Feb	1905
Luis F. Villarôn 23 May.	1910	Johannes Heliner	7 Dec	1006
Manuel Alvarez Calderôn	1010	Baron Carl Nils Daniel Bildt	7 Dec.,	1006
Lizardo Almazôra 22 April,	1014		, Dec.,	1900
	1914	SWITZERLAND		
PORTUGAL PORTUGAL		Charles Edouard Lardy 3	1 Dec.,	1900
Fernando Matozo Santos	1903	Eugène Huber	0 June,	1905
Francisco Antonio da Veiga Beirao		Leo Weber	3 Jan.,	1910
José Capello Franco Frazao	910			
A. Pinto de Miranda Montenegro 25 May, 1	910	TURKEY		
ROUMANIA		Ibrahim Hakky Pasha 2	8 Jan.,	1909
Théodore G. Rosetti	010	Osman Bey	2 April,	1915
Jean Kalinderu	310	Haladjean Effendi	2 April,	1915
Jean N. Laborrane 24 None 4		Chéref Bey	2 April,	1915
Jean N. Lahováry. 21 Nov., 1	900			
Constantin G. Dissescu. 21 Nov., 1	900	URUGUAY		
RUSSIA		Juan Zorilla de San Martin 2	5 April,	1911
A. Sagouroff 20 Dec., 1	909	Jose Pedro Massera 2	5 April,	1911
M. Tagantzeff	909	Manuel B. Otero 1	3 Jan.,	1914
Baron de Taubé				
Baron Nolde	016	VENEZUELA	0.35	4000
		Nicomedes Zuloaga		
SALVADOR		Francesco Arroyo Parejo		
Manuel Delgado	909	Carlos Léon		
Salvador Gallegos 2 Nov., 1	909	Manuel Antonio Matos	3 Mar.,	1909

THE UNITED STATES PUBLIC HEALTH SERVICE

The United States Public Health Service is a Bureau of the Treasury Department, and had its origin in the Act of July 16, 1798, "for the relief of sick and disabled seamen." A govern-1798, "for the relief of sick and disabled seamen." A government medical service, designed primarily to care for the seamen of the merchant marine and to supervise the hospitals established for this purpose at various ports of the country, was the direct outgrowth of this law, and it became known as the Marine Hospital Service. Later, because of their medical training, the officers of this service cooperated with customs officers in preventing the introduction of disease by incoming vessels, and eventually the function of maritime quarantine was turned over to the Marine Hospital Service by Act of Con-

turned over to the Marine Hospital Service by Act of Congress.

In the prevention of the introduction of disease from abroad, the problems of preventing its spread once it had gained entrance naturally arose, and thus the study of causes and modes of transmission of disease was begun. Under Acts of Congress passed in 1890 and 1893, the function of interstate quarantine was given to the Marine Hospital Service.

By 1902, the activities of the service, aside from quarantine and the care of seamen, had become so widely diversified that a law was passed changing the name to the "Public Health and Marine Hospital Service." This law provided for a bureau organization in Washington such as exists at the present time. In 1912, the name was again changed by Congress to the "Public Health Service."

The head of the bureau in Washington is a commissioned medical officer, with the title of Surgeon General. The work of the Service is administered, under the direction of the Surgeon General, by seven bureau divisions—Personnel and Accounts, Scientific Research, Foreign and Insular Quarantine, Domestic (Interstate) Quarantine. Sanitary Reports and Statistics, Marine Hospitals and Relief, and Miscellaneous.

The commissioned corps of the service consists of medical officers of the following grades: Surgeon General, Assistant Surgeons, and Assistant Surgeons, and Assistant Surgeons, Appointments in the commissioned corps are made to the grade of Assistant Surgeon, and Assistant Surgeons, and Assistant Surgeons, and Physical examination. Qualifications for admission to the entrance examination are graduation from a reputable medical college, one year's hospital examination form a reputable medical college, one year's hospital examination form a reputable medical college, one year's hospital examination form a reputable medical college, one year's hospital examination form a reputable medical college, one year's hospital examination form a reputable medical college, one year's hospital examination.

perience or two years' professional work after graduation, and testimonials from responsible persons as to professional and moral character. Applicants for examination must be between the ages of 23 and 32 years.

The Public Health Service conducts 23 marine hospitals and 120 other relief stations throughout the country. Fifty-one quarantine stations in the United States and 25 stations in its

quarantine stations in the United States and 25 stations in its insular possessions are also maintained, and 85 stations for the medical inspection of immigrants. Fitteen officers are stationed at American consulates abroad to assist in the administration of quarantine and the inspection of immigrants.

The Hygienic Laboratory, in Washington, D. C., is devoted to research work in connection with preventable diseases, sanitation, and pollution of streams, lakes and coastal waters. Here tests are also made of the purity and potency of viruses, serums and toxins, the Public Health Service being charged with the supervision of the manufacture and sale of these products in interstate traffic.

The Service coöperates with state and local boards of health

ucts in interstate traffic.

The Service coöperates with state and local boards of health in the eradication of epidemic diseases, such as plague, cholera, smallpox, yellow fever and typhus lever. Details of medical officers are also made, on request from state and municipal health authorities, to assist in the suppression of typhoid fever, infantile paralysis, crebro-spinal meningitis, Rocky Mountain spotted fever, and other communicable diseases.

Supervision is maintained over the sanitary condition on, and the prevention of the spread of disease by interstate carriers, under interstate quarantine regulations promulgated by the Secretary of the Treasury.

under interstate quarantine regulations promulated by the Secretary of the Treasury.

Among the more conspicuous achievements of the Public Health Service in the field of preventive medicine during recent years are the eradication of yellow fever in the Southern States, and outbreaks of bubonic plague in San Francisco, San Juan, P.

and outbreaks of bubonic plague in San Francisco, San Juan, P. R., and New Orleans.

The personnel of the Service consists of 186 commissioned medical officers; 240 Acting Assistant Surgeons (physicians appointed locally and not subject to change of station); 50 pharmacists; 110 miscellaneous employees, including epidemiologists, sanitary engineers, sanitary chemists, bacteriologists, technical assistants, pilots, engineers, inspectors, etc.; 1,500 attendants—a total of 2,086 persons.

SOUTH AMERICA

It is only in recent years that commercial interests of the United States have given serious consideration to the industrial possibilities of South America.

The National City Bank of New York has taken advantage of the first opportunity afforded by our laws to establish branches in foreign countries, and it has branches in operation at Buenos Aires, Argentine; Rio de Janeiro, Santos and Sao Paulo, Brazil; Montevideo, Uruguay; Havana, Cuba and other cities in Latin America. These are the first in a general and comprehensive plan of foreign branch banking which this institution has undertaken as a specific and permanent aid to the prehensive plan of foreign branch banking which this institu-tion has undertaken as a specific and permanent aid to the development of the foreign commerce of the United States. Besides conducting all of the banking functions authorized by law, especial attention is given to foreign exchange transactions, the furnishing of credit information, and the preparation of specific trade information looking to the sale of American

specific trade information looking to the sale of American products and manufactures.

The building of the Panama Canal has been a wonderful stimulus to Southern market conditions. The opening of this great waterway and the inevitable changes in sea routes will work a practical revolution in commerce. The Atlantic seaports of the United States are almost on a straight north and south line with the Pacific Seaports of South America. The one great drawback, at present, is the smallness of the American Merchant Marine. British ships will undoubtedly carry the bulk of South American exports, and Great Britain will reap a big advantage from the Canal. The port of Callao will be 4,320 miles nearer to Liverpool, with a saving of 14 days in time. To Valparaiso the shortening in distance will be 1,813 miles.

PORT DEVELOPMENT

The countries with Pacific seaboards are Colombia, Ecuador, Peru and Chile, and nearly all of the seaports are at present simply open roadsteads. Many improvements, however, are planned.

COLOMBIA. Buenaventura is the principal port, situated about 10 miles up to the River Buenaventura. The river is to be dredged, quays and buildings constructed, and electric power

installed. Tumaco is a boundary town between Colombia and Ecuador. There are no wharves, boats landing on the beach.

Ecuador. There are no wharves, boats landing on the beach.

Ecuador. Guayaquil is the principal port, about 33 miles
up the River Doule, the largest on the west coast. At high
tide vessels drawing 22 feet can pass up to the city. Bahia,
at the entrance to the Caracas River, is the nearest port to
Quito, the capital. The river is shallow and not easy of access.

No improvements for either of these ports are contemplated at present.

PERU. Callao is the principal port, being the outlet for Lima, the capital. The harbor is one of the best on the Pacific coast. There are a number of piers, and now it is planned to build a There are a number of piers, and now it is planned to build a large breakwater, to construct quays and modern warehouses. Mollendo is next in rank, but has no shelter, and operations are often interrupted by the swell of the current. Improvements are pending. Payta is the best open roadstead. There are two piers, well sheltered. Eten has an iron pier 878 yards long, for use of lighters and boats. Salaverry Port has gained importance through the building of the railway to Truxillo, connecting with the fertile valleys of Chicama. Pisco is a very old Pertyian port. It has a pier 600 yards long. There is good anchorage.

Chile. This country has about 60 ports, most of which are only open roadsteads. Valparaiso is at present the chief port on the west coast of South America. Extensive improvements are being made, which will take 5 or 6 years to complete. At the port of San Antonio new works are in progress costing about \$4,000,000. Arica is the most northerly port of Chile, and if port improvements are carried out, should develop into great importance.

importance.

Among the nitrate ports Iquique ranks first. Its exports are 50 per cent more than Valparaiso, but its imports are less than half. Improvements are projected, but the nitrate shipping agents are not greatly in favor of a deep water port. Antofagasta is a large nitrate port, but has very poor facilities, with no progress in development.

The two principal coal ports in the southern part are Coronel and Lota. The port of Lebu may rank ahead of them if satis-

factory improvements can be made.

COUNTRIES OF SOUTH AMERICA

Country	Capital	Gov. Head, Term Ends	Area Sq. Miles Sq. Mile
Argentina	Buenos Aires	Hipolito Irigoyen, 1918	
Bolivia	Sucre, La Paz	Dr. Ismael Montes, 1917	514.155 4.6
Brazil	Rio de Janiero	Wenceslao Braz Pereira Gomez, 1918.	3,218,991
Chile	Santiago	Juan Luia San Fuentes, 1921	292,580
Colombia	Bogota	Don José Vicente Concha, 1918	440,846
Ecuador	Quito	Alfredo Bazuerizo Morena, 1920	116,00012.8
Paraguay	Asuncion	Dr. Emanuel Franco, 1920	165,000 4.8
Peru	Lima	Senor Don José Pardo, 1920	683,321 8.49
Uruguay	Montevideo	Dr. Feliciano Viera, 1919	72,15317.0
Venezuela	Caracas	General Juan Vicente Gômez, 1922	398,5945.7

COMMERCE OF SOUTH AMERICA

		Imports	Exports
Argentina	1915	£45,378,546	£111.656.128
	914	54,363,580	69,850,828
Bolivia	1915	1,578,645	6,790,271
	1914	3.180.897	
Brazil	1915	30,088,000	
	1014	35 // 30 (100	
Chile	1914	20,231,752	
	1913	24,713,836	
Colombia	1914	4,195,846	
	1913	5,397,480	
Ecuador	1914	1,666,471	2,590,424
-	1913		
	1914		
	1915	468,102	
Peru	1913	6,088,777	
**	1914	4,827,930	
Uruguay	1915	6,995,928	
			10,483,761
Venezuela	1915	2,335,063	
	1914	3,524,414	5,555,714

INDUSTRIES AND PRODUCTION IN SOUTH AMERICA

ARGENTINA. The largest crop is wheat, of which the acreage is about 17,000,000. Maize is second, with 10,000,000 acres. It is estimated that there are 30,000,000 cattle and 70,000,000 sheep in Argentina.

There are about 32,000 factories employing a total of 340,000 people. The principal exports are agricultural and live-stock products. The principal imports are textiles, iron, and building

materials.

BOLIVIA has no seaports. Its greatest wealth comes from its minerals. It mines about 40,000 tons of tin a year, supplying one quarter of the total tin output of the world. It also exports large quantities of silver and bismuth. About 5,000 tons of rubber are sent out of the country every season. The principal imports are textiles, cattle and provisions.

BRAZIL is an agricultural country, though only a small part of it is under cultivation. Coffee is the chief product. Four-fifths of the world's coffee comes from Brazil. The average annual crop is 13 million sacks. India rubber is another great natural product, Brazil, producing half the world's supply. Three other large items of export are leather, cocoa and mate or Paraguay tea.

The most important manufacturing industry is cotton weaving, consequently the imports of yarn and thread are heavy.

Another large import is machinery. imports are carried there by England.

CHILE. Agriculture and mining are the principal occupa-tions. Over a million acres of wheat are raised annually. There are nearly 100,000 people employed in mineral works. About 2½ million tons of nitrate is exported annually. 1200 ozs. of gold is the annual production of that metal. The largest

imports are cottons, woolens, oil and machinery.

Imports are cottons, woolens, oil and machinery.

COLOMBIA. The greatest wealth of this country is in its minerals. It exports large amounts of gold, silver and platinum. Nearly all the emeralds come from Colombia. Much of the soil is fertile but very little under cultivation due to lack of transportation facilities. The greatest items of export besides the precious metals are coffee, hides, bananas and rubber. The United States gets the largest percentage of exports. The chief imports are flour, lard, petroleum and cotton goods from the United States, rice from Germany and cotton goods from England. England.

ECUADOR. The staple product is cocoa of which about 86,000,000 pounds is the annual yield. One of the largest industries is the making of Panama hats. The chief exports are cocoa, ivory, nuts and rubber. The chief imports are textiles foodstuffs and iron-work.

PARAGUAY. The chief imports are textiles, provisions, hardware and fancy goods, 25% of which come from England. The chief exports are hides, Paraguay tea, oranges, tobacco, timber and dried beef. Most of the Paraguay tea grows wild in the

virgin forests.

URUGUAY is an agricultural country. It has about 850,000 acres devoted to wheat and 150,000 to linseed. There are approximately 9,000,000 cattle and 27,000,000 sheep in Uruguay. The principal exports are wool, hides, and meats and extracts. France and Belgium get the largest percentage of these exports. The chief imports are textiles, iron and steel, and foods, of which England carries the largest amount.

VENEZUELA. The principal exports are coffee, cocoa, rubber, hides and gold. Of these the United States and France get the larger share. There are very few industries in Venezuela, nearly all manufactured articles required being imported. The United States and England share about equally in this trade.

Mr. E. N. Hurley, after a thorough investigation of South

More than half of Brazil's American conditions, has made an exhaustive report to Department of Commerce.

Mr. Hurley makes three primary recommendations for the increase of American exports to Latin America. They are:

1. The establishment of a network of sales organizations and

2. The development of steamship lines plying directly between North and South American points.
3. The establishment of American banks and credit agencies

in South America.

Secondary considerations are the encouragement of American Secondary considerations are the encouragement of American business men to send young men to South America to familiarize themselves with the people and to grow up in business; the establishment by the state and commerce departments of more efficient diplomatic and commercial agencies; and the creation of a news exchange by which South American news will be handled properly in North America and North American news

will receive proper and just treatment in South America. With regard to the salesmen and sales agencies, Mr. Hurley says the United States is without an adequate supply of salesmen trained for the South American field. The difficulty is being remedied to some extent by some corporations which are

being remember to some extent by some corporations which are sending men to Latin America.

One of the chief obstructions to overcome is the lack of trading houses and American agents in the field. Corporations which do not send their men to Latin America now are forced to deal through houses controlled by European interests.

The great opportunity for American sales in South America, lies, in demonstration, advertising, and follow up methods. The market is ripe for these tactics, but they must not be left

to Europeans.

Mr. Hurley points out that the greater portion of the trade Mr. Hurley points out that the greater portion of the trade now carried to South America from this country goes first to Europe. He proposes that steamship lines plying between United States ports and those on both sides of South America be established immediately. With the opening of the Panama canal, he holds, the old method would be ridiculous.

The chief recommendation, however, is for the establishment of American banks and credit agencies in Latin America. At the present time every bit of business transacted by United States merchants there is handled through German or British

banks and agencies.

RADIUM

The chief source of radium has been pitchblende, especially that obtained from the mines now controlled by the Austrian Government at Joachimsthal. It is also found in uranium ores mined in Saxony, Cornwall (England), Colorado, Russia, Africa and Australia.

The first operation is the separation of the uranium. The residues contain silica and numerous metals which have to be got rid of. At the end of the first or "opening up" process the radium remains as a chloride mixed with barium chloride. The final separation of the radium and barium salts may take

several months.

It may require one hundred tons of ore to produce a single gram of radium. The enormous quantity of chemical reagents required to treat this mass of more or less inert material, and the long time consumed in the processes, as well as the delicacy and skill with which each step must be conducted, account for the high cost of the final product. There seems reason to

believe that it must always be comparatively expensive, at

To treat a ton of uranium ore for radium contents requires fifty tons of water and five tons of chemicals, and this produces about a grain of radium. The price has gone up from \$75,000 a grain, to \$125,000 a grain.

Radum is estimated to have a life of over 2,000 years.

Radum is estimated to have a nic of over 2,000 years. The first attempt to obtain radium in America was made by the Rare Metals Reduction Company in September, 1902, at Buffalo, New York, with 500 pounds of high-grade ore from Richardson, Utah, but only barium sulphates were found.

Just now the accounts of carnoite in Colorado and Utah are

fluent throughout the world. In 1913 the Standard Chemical Company, of Pittsburgh, exported 45 milligrams of radium sulphate of high quality to Vienna, this being the first exportation of American radium-bearing ore from the Colorado dis-

SHRAPNEL SHELL

The Shrapnel is really a flying cannon, which shoots its charge while in flight or explodes on impact. Its design involves many interesting features, as the case must be strong enough to withstand the bursting pressure and the stresses

enough to withstand the bursting pressure and the stresses developed in firing.

The Shrapnel case must be able to withstand a pressure of from 30,000 to 35,000 pounds per square inch from the powder which drives it out of the gun, though it is tested to 40,000 pounds. In addition to this it must resist the charge of explosive in the base of the case; this base charge drives the head and balls out of the case, when a time or distance is used, or explodes it on impact with the earth or any other resisting substance.

This expelling or bursting charge exerts a pressure varying

from 20,000 to 25,000 pounds per square inch. Further than this, the torsional stress when the case is started whirling through the rifling of the gun by the force behind it, must be counted. This rotation starts the instant the shell begins its movement from the breech of the gun, and when we consider that, by the time it leaves the muzzle it must have attained a velocity of 1,700 feet per second, we can begin to see how an acceleration of 500,000 feet per second is attained.

These pressures explain why it is necessary to make the cases of such high quality material, a tensile strength of 135,000 pounds to the square inch, an elastic limit of 110,000 pounds per square inch, an elongation in two inches of 11 per cent, and the contraction of area 25 per cent. from 20,000 to 25,000 pounds per square inch. Further than

WORLD'S CHIEF SOURCES OF SUPPLY

		(A Year's Production	1)	
Cattle(number) Pigs (number)	British India. 91,666,361 United States. 56,084,000	United States. 71,267,000 Germany 22,080,000	Russia 43,204,000 Russia 12,734,000	Argentina 25,844,000 Austria- Hungary 12,013,000
Wheat (bu.)	United States. 664,600,000	Russia569,500,000	France310,500,000	Austria- Hungary229,300,000
Sugar-cane (tons)	India 2,051,900 Germany 2,124,326	Java 945,774 Russia 1.125,997	Austria-	Hawaii 521,123
Rice (tons)	China 27,500,000	India 22,110,000 China 214,683,333	Hungary 1,023,963 Java 4,704,000 Ceylon 179,834,462 Guatemala 81,000,000	1apan
Cocoa (tons)	Brazil 34,270	Ecuador 31,142	W. Africa 30.094	Trinidad 23,260
Tobacco (cwts.)	France1,331,900,000 United States. 6,411,000 Brazil 34,900	India 5,000,000	Russia 1,447,000	Algeria181,031,000 D'ch E. Indies 1,101,000 India and E.
Silk (lbs.)		Italy 12,753,000	Japan 12,725,000 Russia and	
			Siberia360,000,000	United States.311,138,000 China225,000,000
(value)	United States. \$69,735,000	Hungary\$69,500,000	Sweden\$63,220,000	Russia\$60,500,000
	United States. 428,895,914	United King-		France 36,753,627
Gold (value) Silver (value)	Mexico\$50,565,000	United States.\$92,915,000	Australia\$65,535,000	Austria348,600 Russia\$28,160,000 Germany\$8,480,000
Diamonds (value).	. Cape of Good Hope\$20,685,000	Transvaal \$8,965,000	Orange Free State, \$5,740,000	Ger. So. West Africa \$5,290,000
Pig Iron (tons)	United States. 25,781,361	Germany 12,671,731	United King- dom 10,114,281	
Steel (tons)	United States. 23,955,000	Germany 11,860,000	United King-	France 2,987,000
Copper (tons)	United States. 493,476	Mexico 61,000		
Tin (tons)	Fed. Malay States 68,856			Australia 12,755

BEES AND HONEY

While the bee-keeping industry is rated as one of secondary importance, it has a value much greater than is ordinarily realized. It is most difficult to obtain any exact figures of the value of honey and wax produced in a year. The honey harvest varies greatly from year to year on account of climatic conditions, affecting the nectar. Then there are thousands of amateur bee-keepers who make no report to the Department of Agriculture, but it is safe to say that the average annual value of honey and wax is in the neighborhood of \$35,000,000. According to the Department of Agriculture there were 3,445,000 colonies of bees in 1910 worth \$10,373,615. Texas, Missouri, California and North Carolina are the leading bee states in the order named. But the bee is not only valuable for its honey and wax. It is a wonderful agent of pollination. Estimating the population of a colony of bees at 10,000 in early spring, it may easily be seen how readily the orchardist may insure pollination by carrying a few colonies of bees to the orchard. Nearly all fruit growers recognize this value of the bee to their industry.

Heretofore it has been thought that bees could be cultivated only in the country where blooms were abundant, but experience has demonstrated that bees can be raised not only in the villages and towns, but also in cities. In New York a man interested in this subject has successfully raised colonies of bees on the top of one of the city skyscrapers.

Bees are not deemed to reference and the state of the state

this subject has successfully raised colonles of bees on the top of one of the city skyscrapers.

Bees are not dependent on flowers common to the gardens of the cities or country. The nectar producing plants amount to many thousands, the majority of which are unknown even to those who have made a special study of this subject.

This nectar is transformed by the bees, and stored in the comb. Bees also often gather a sweet liquid called "honeydew," pro-

duced by various scale insects and plant-lice, but the honeydew honey made from it is quite unlike floral honey and should not be sold for honey. It is usually unpalatable and should never be used as winter food for bees. When nectar or honeydew has been thickened by evaporation and otherwise changed, the honey is sealed in the cells with cappings of beeswax.

Chemically considered, the ideal honey is a concentrated solution of invert sugar (i. e., of the sugars dextrose and levulose in equal proportions), with traces of ash, formic acid, nitrogenous bodies, dextrin, and other organic substances not sugar.

To make one pound of clover honey, bees must deprive 52,750,000 visits to the blossoms. That is, one bee to collect enough nectar to make one pound of honey must go from hive to flower and back nearly three million times.

POTASH FERTILIZER IN HAWAII

In the Hawaiian Gazette of May 3, 1912, Dr. E. V. Wilcox announces that ordinary black volcanic sand, or lava cinder, millions of tons of which are deposited near the extinct craters in the Sandwich Islands, is found to yield from 2 to 7 per cent of potash. The potash is not in a readily soluble form and disinterpartes slowly, but the sand itself will serve to loosen and lighten the heavy soil of the sugar fields, feeding the soil for several years after admixture. The commercial value of the sand for fertilizing purposes, owing to the potash impregnation, is estimated at \$5 or \$6 per ton, and it is available at slight cost for cartage. The discovery will be the means of great saving to the pineapole growers as well as the sugar planter in Hawaii the pineapple growers as well as the sugar planters in Hawaii.

STATISTICS OF THE WORLD

Area196,900,000 sq. miles
And and a second
Area of land
Area of fertile land 28 270 000 as miles
Population
Age of earth
Distance from Sun
Equatorial diameter
Equatorial circumference24,902 miles
Polar diameter
Density compared with water5.55

Continental Area and Population

Continent	Area in sq.	Population		
Continent	miles	Number	Per sq. mi.	
Africa	11,515,000	130,000,000	11.	
America, N	9,323,000 6,889,000	115,000,000 45,000,000	12. 6.	
Asia	17,057,000	900,000,000	53.	
Australasia	3,456,000	5,500,000	1.	
Europe Polar Regions	3,879,000 253,000	414,500,000	107.	

Approximate Area of the Largest Countries

1. British Empire		11,450,000	sq.	miles
2. Russia (and possessions)				
3. France (and possessions)				
4. China (and possessions)		. 4,300,000	sq.	miles
5. United States (and possessions)	• • •	. 3,750,000	sq.	miles

Ocean Depth and Area

The oceans, including the inland seas connected with them, cover about 144,500,000 sq. miles, or 73.39% of the total surface.

Ocean			Greatest	Depth	Area
Atlantic	 		27,366	feet	34,000,000 sq. miles
Pacific					71,000,000 sq. miles
Indian					28,000,000 sq. miles
Arctic					4,000,000 sq. miles
Antarctic.	 	,.	25,200	feet	7,500,000 sq. miles

The greatest ocean depth is approximately the same as the greatest land height, but the average depth of the sea floor is about 12,000 feet, while the average land height above the sea is only 2,300 feet. The maximum depth in the Pacific is near the island of Mindanao and that in the Atlantic off the coast of Porto Rico.

	Popula	tion by Races	
Division	Color	Section	Est. Population
Mongolian	Yellow	Asia	685,000,000
Caucasian	White	Europe & Ame	erica650,000,000
Negro	Black	Africa	160,000,000
		North Africa.	
Malayan	Brown	Australasia, in	c.
			nsula. 50,000,000
Indian	Red	America, N. ar	d S 15,000,000

Population by Religion	
Christian559,000,00	0
Catholic	
Protestant	
Greek Church	
Abbysinian Church 3,000,000	
Armenian Church	
Others 300,000 Hindooism 206,000,00	
Hindooism)0
Mohammedanism)()
Buddhism450,000,00	00
Polytheism142,000,00	JU
Jewish Religion	H
Mohammedanism 243,000,00 Buddhism 450,000,00 Polytheism 142,000,00 Jewish Religion 10,000,00 Of the total population of the world, about one-third an	re
Christians.	

Proportion of Women In Europe, there are 1,000 men to 1,027 women; in Africa, 1,000 men to 1,045 women; in America, 1,000 men to 964 women; in Asia, 1,000 men to 961 women; in Australia, 1,000 men to 937 women.

The highest proportion of women is found in Uganda, where there are 1,467 to every 1,000 men. The lowest proportion is in Alaska and the Malay States, where there are in the former 391 and in the latter 389 to every 1,000 men.

Largest Cities in the World

City	Country	Population
Greater London	England	
London	England	4.521.685
New York	United States	5,333,539
Paris	France	2,888,110
Unicago	United States	2,393,32 5
10KY0	Japan	2,186,079
merun	Germany	2,071,257
Vienna	Austria	2,031,498
Petrograd	Russia	2,018,596
Philadelphia	United States	
Moscow	Russia	
Buenos Aires	Argentina	1,560,163
Calcutta	India	1,222,313
Constantinople	TurkeyJapan	1 226 647
Peking.	China	1 077 200
Canton	China	900,000
O		500,000

Principal Languages of the World

	No. Persons		No. Persons
	Spoken by		Spoken by
English	150,000,000	Spanish	. 55,000,000
German		Italian	. 40,000,000
Russian	90,000,000	Portuguese	. 30,000,000
French	60,000,000		

There are approximately 3,500 languages or dialects in the world. The English has grown faster than any other language during the past century.

Highest Structures in the World

	Feet
Eiffel Tower, Paris	984
Woolworth Building, New York City	750
Metropolitan Building, New York City	700
Cin and Duit Line No. 17 als City	700
Singer Building, New York City	
Equitable Building, New York City	600
Municipal Building, New York City	580
Washington Monument, Washington, D. C.	555
City Hall, Philadelphia, Pa	549
Bankers' Trust Co. Building, New York City.	539
Cologne Cathedral, Cologne, Germany	201
Adams Building, New York City	450
Pyramid of Cheops, Memphis, Egypt	
St. Peter's, Rome, Italy.	
O. N. I. T. J. T. J.	
St. Paul's, London, England	300
Milan Cathedral, Milan, Italy	300

World's Postal Statistics (From Annual Reports)

	Letters and	No. of
Country	Post Cards	Post Offices
United States		
United Kingdom	.4,000,000,000	24,006
Germany	.4,000,000,000	50,500
Austria-Hungary	.1,500,000,000	16,000
France	, 1,350,000,000	13,000
Japan Russia	, 1,200,000,000	7,000
Russia	.1,000,000,000	15,000
India	. 750,000,000	19,500
Canada	500,000,000	12,800
Russia. India. Canada Italy	400,000,000	10,000
ArgentinaAustralia	. 350,000,000	, 0,000
Australia	. 320,000,000	
Switzerland	270,000,000	4,100

World's Crops The latest statistics of total crops raised per year on the	WORLD'S LARGEST ISLANDS—Continued.
The latest statistics of total crops raised per year on the earth are:	Australia, of course, is the largest island of all, with an area of nearly 3,000,000 sq. miles, but Australia is now generally
Corn 3 672 636 000 bu. Barley 1 385,245,000 bu.	considered to be a continent.
Wheat 3,626,336,000 bu. Oats 4,410,686,000 bu.	Delimore of the World
Wheat. 3,626,336,000 bu. Oats. 4,410,686,000 bu. Rye. 1,675,898,000 bu. Cotton. 19,171,000 bales Tobacco. 2,595,247,000 lbs. Potatoes. 5,523,864,000 bu.	Railways of the World Old World Miles New World Miles
Sugar17,097,704 tons	Old World Miles New World Miles Europe 207,488 North America 283,511
	Asia
Asia Height of Famous Mountain Peaks Everest	AIRCa 22,905 Australasia 19,275
Godwin-Austen	293,734 346,424
ASIA Evers: 22,02 feet Color Color	A total of 640,158 miles for the whole globe, which is a gain of 14 460 miles in one year of which increase 6 221 miles were
Mercidario	of 14,460 miles in one year, of which increase 6,221 miles were in the Old World and 8,239 in the New.
Tupunagato21,550 feet	In 1840 there were only 4,772 miles of railroad. In the last
Illampu	the railroads are government owned or controlled—107.746
NORTH AMERICA McKinley	In 1840 there were only 4,772 miles of railroad. In the last 10 years, 149,092 miles have been built. Thirty per cent. of the railroads are government owned or controlled—107,746 miles in Europe, 36,365 in Asia, and 18,036 miles out of the 19,275 miles in Australasia.
Hampu 21,490 feet Cotopaxi 19,612 feet North America McKinley 20,498 feet Logan 19,539 feet Rainier 14,526 feet	
EUROPE Elburg. 18,526 feet	Miles of Telegraph Line
Mont Blanc	
EUROPE Elburg 18,526 feet	United States. 225,000 Argentina. 38,000 Russia. 120,000 Mexico. 22,000
	Germany 140,000 Brazil 38,000
World's Longest Rivers Amazon	India 72 000 Italy 35 000
Amazon Atlantic 4,200	Austria-Hungary 53.000 Spain
Nile	United Kingdom 60,000 China 27,000 Canada 37,000
Vangtse North Pacific 3.300	Australia 43.000 The World 1.307.000
Missouri & Mississippi. Gulf of Mexico	Australia 43,000 The World 1,307,000 In proportion to the number of people, New Zealand and
Ob	Australia have the most telegraph lines.
Congo Atlantic 2,900 Niger Gulf of Guinea 2,700 Amur Sea of Okhotsk 2,700 Hoang Yellow Sea 2,500	OCEAN CABLES
AmurSea of Okhotsk	OCEAN CABLES Ownership Miles British 160,000 German 10,000
Volga Caspian Sea 2,300	United States 50,000 Other Nations 12,000
MackenzieBeaufort Sea	French 25 000
La PlataSouth Atlantic 2.300	Danish
Vukon Rehring Sea 2 000	The first ocean cable was laid across the English Channel
Yukon Behring Sea 2,000 St. Lawrence 2,300	Danish. 11,000 Total268,000 The first ocean cable was laid across the English Channel between Dover and Calais in 1850.
Caspian Sea	Telephones in the World
Famous Waterfalls of the World	Telephones in the World Country Miles of Wire Stations
Famous Waterfalls of the World Name and Location Height in Feet Gavarnie, France, 1 385	Telephones in the World Country Miles of Wire Stations
Famous Waterfalls of the World Name and Location Height in Feet Gavarnie, France, 1 385	Country Miles of Wire Stations
Famous Waterfalls of the World Name and Location Height in Feet Gavarnie, France. 1,385 Grand, Labrador 2,000 Minnebaba, Minnesota. 50 Minnebaba, Minnesota. 50	Telephones in the World Country Miles of Wire Stations United States 17,017,393 7,659,475 German Empire 3,121,000 1,006,800 Great Britain 2,047,680 639,900 Consideration 2,668,746 639,900 239,777 239,
Famous Waterfalls of the World Name and Location Height in Feet Gavarnie, France. 1,385 Grand, Labrador 2,000 Minnebaba, Minnesota. 50 Minnebaba, Minnesota. 50	Telephones in the World Country Miles of Wire Stations United States 17,017,393 7,659,475 German Empire 3,121,000 1,006,800 Great Britain 2,047,680 639,900 Canada 568,746 284,373 France 830,520 230,700 233,200 186,000 186,
Famous Waterfalls of the World Name and Location Height in Feet Gavarnie, France. 1,385 Grand, Labrador 2,000 Minnebaba, Minnesota. 50 Minnebaba, Minnesota. 50	Telephones in the World Country Miles of Wire Stations United States 17,017,393 7,659,475 German Empire 3,121,000 1,006,800 Great Britain 2,047,680 639,900 Canada 568,746 284,373 France 830,520 230,700 233,200 186,000 186,
Famous Waterfalls of the World Name and Location Height in Feet Gavarnie, France. 1,385 Grand, Labrador 2,000 Minnebaba, Minnesota. 50 Minnebaba, Minnesota. 50	Telephones in the World Country Miles of Wire Stations United States 17,017,393 7,659,475 German Empire 3,121,000 1,006,800 Great Britain 2,047,680 639,900 Canada 568,746 284,373 France 830,520 230,700 233,200 186,000 186,
Famous Waterfalls of the World	Telephones in the World Country Miles of Wire Stations United States 17,017,393 7,659,475 German Empire 3,121,000 1,006,800 Great Britain 2,047,680 639,900 Canada 568,746 284,373 France 830,520 230,700 233,200 186,000 186,
Famous Waterfalls of the World	Telephones in the World Country Miles of Wire Stations United States 17,017,393 7,659,475 German Empire 3,121,000 1,006,800 Great Britain 2,047,680 639,900 Canada 568,746 284,373 France 830,520 230,700 Sweden 223,200 186,000 Russia and Finland 318,500 172,900 Japan 222,098 117,394 Austria 302,000 111,880 Demark 229,600 95,700 250,000
Famous Waterfalls of the World	Telephones in the World Country Miles of Wire Stations United States 17,017,393 7,659,475 German Empire 3,121,000 1,006,800 Great Britain 2,047,680 639,900 Canada 568,746 284,373 France 830,520 230,700 Sweden 223,200 186,000 Russia and Finland 318,500 172,900 Japan 222,098 117,394 Austria 302,000 111,880 Demark 229,600 95,700 250,000
Famous Waterfalls of the World	Telephones in the World Country Miles of Wire Stations United States 17,017,393 7,659,475 German Empire 3,121,000 1,006,800 Great Britain 2,047,680 639,900 Canada 568,746 284,373 France 830,520 230,700 Sweden 223,200 186,000 Russia and Finland 318,500 172,900 Japan 222,098 117,394 Austria 302,000 111,880 Demark 229,600 95,700 250,000
Famous Waterfalls of the World Name and Location Height in Feet Gavarnie, France 1,385 Grand, Labrador 2,000 Minseout 50 Missouri, Montana 90 Montmorenci, Quebec 265 Multnomah, Oregon 850 Murchison, Africa 120 Niagara, New York-Ontario 164 Rjukan, Norway 786 Schaffhausen, Switzerland 100 Skjaeggedalsfos, Norway 530 Shoshone, Idaho 210 Staubbach, Switzerland 1,000 Stirling, New Zealand 500 Sutherland, New Zealand 1,904	Telephones in the World Country Miles of Wire Stations United States 17,017,393 7,659,475 German Empire 3,121,000 1,006,800 Great Britain 2,047,680 639,900 Canada 568,746 284,373 France 830,520 230,700 Sweden 223,200 186,000 Russia and Finland 318,500 172,900 Japan 222,098 117,394 Austria 302,000 111,880 Denmark 229,600 95,700 Switzerland 210,600 78,000 Italy 144,600 72,300 Norway 119,400 54,300 Spain 55,660 25,300 Elsewhere 1,233,370 500,965
Famous Waterfalls of the World Name and Location Height in Feet Gavarnie, France 1,385 Grand, Labrador 2,000 Minseout 50 Missouri, Montana 90 Montmorenci, Quebec 265 Multnomah, Oregon 850 Murchison, Africa 120 Niagara, New York-Ontario 164 Rjukan, Norway 786 Schaffhausen, Switzerland 100 Skjaeggedalsfos, Norway 530 Shoshone, Idaho 210 Staubbach, Switzerland 1,000 Stirling, New Zealand 500 Sutherland, New Zealand 1,904	Telephones in the World Country Miles of Wire Stations United States 17,017,393 7,659,475 German Empire 3,121,000 1,006,800 Great Britain 2,047,680 639,900 Canada 568,746 284,373 France 830,520 230,700 Sweden 223,200 186,000 Russia and Finland 318,500 172,900 Japan 222,098 117,394 Austria 302,000 111,880 Denmark 229,600 95,700 Switzerland 210,600 78,000 Italy 144,600 72,300 Norway 119,400 54,300 Spain 55,660 25,300 Elsewhere 1,233,370 500,965
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Famous Waterfalls of the World	Telephones in the World Country Miles of Wire United States Stations United States 17,017,393 7,659,475 German Empire 3,121,000 1,006,800 Great Britain 2,047,680 639,900 Canada 568,746 284,373 France 830,520 230,700 Sweden 2223,200 186,000 Russia and Finland 318,500 172,900 Japan 222,098 117,394 Austria 302,000 111,880 Denmark 229,600 95,700 Switzerland 210,600 78,900 Italy 144,600 72,300 Norway 119,400 54,300 Spain 55,660 25,300 Elsewhere 1,233,370 500,965
Famous Waterfalls of the World	Telephones in the World Country Miles of Wire Country Miles of Wire Country Miles of Wire Country Miles of Wire Country Coun

 World's
 Largest
 Islands

 Greenland
 .750,000 sq. miles
 Madagascar
 .228,000 sq. miles

 New Guinea
 .330,000 sq. miles
 Sumatra
 ...
 160,000 sq. miles

 Borneo
 ...
 26.
 Britain
 ...
 88,000 sq. miles

Longest Tunnel in the World

The Russian Government is planning the longest tunnel in the world. It is to be fifteen miles long and, with other facilities, will connect Tiffis and Vladikavkas, the latter place being a town in Ciscaucasia. The two places are only 125 miles apart, and at the present time a roundabout journey of 940 miles is necessary in order to go from one place to the other.

Leading Art Galleries of the World

Louvre, Paris; Dresden Gallery, Dresden; Vatican, Rome; Uffizi, Florence; Piti Gallery, Florence; Museo del Prado, Madrid; National Gallery, London.

AMERICA
Corcoran Art Gallery, Washington, D. C.; Metropolitan
Museum of Art, New York, N. Y.

The	World's	Most	Famous	Diamonds	3
Name					Carats
Cullinan					3 025
D'Angleterre	(hlma)				.0,023
D'Angleterre	(prue)	• • • • • •			. 44 1/4
Etoile Polaire					. 40
Etoile du Sud					. 124 •
Grand Duc de	Toscane.				. 133.16
Great Mogul.					279 3
Imperatrice E	ugenie	,			51
Kohinoor (firs	t outting)				279
Tolinoor (mis	t cutting).				. 219
Kohinoor (sec	ong cattin	g)			106 16
Loterie d'Ang	leterre				. 49
Nassak					785/6
Orloff					. 1943/
Pacha d'Egyp	<u>+</u>				40
Percent Care					1261/
Regent					. 1363/4
Sancy					. 531/2
Shah					. 86
Tiffany					. 969
Tiffany (yello	w)				125
	,				

Famous Streets of the World Berlin-Unter den Linden

Ramous Streets of the Berlin—Unter den Linden.
Buenos Aires—Avenida de Mayo.
Chicago—State Street.
City of Mexico—Paseo de la Reforma.
Cleveland—Euclid Avenue.
Dublin—Sackville Street.
Edinburgh—Princes Street.
Edinburgh—Princes Street.
London—Fleet Street and the Strand.
Madrid—Paseo del Prado.
Munich—Ludwigstrasse.
New Orleans—Canal Street.
New York—Broadway.
Paris—Avenue des Champs Elysees.
Philadelphia—Chestnut Street.
Rio de Janeiro—Avenida Central.
Rome—The Corso.
San Francisco—Market Street.
St. Petersburg—Nevski Prospect.
Vienna—Ringstrasse.
Washington—Pennsylvania Avenue.

World's Most Noted Bells

The most costly set of chime bells probably in the world are those hung 642 feet above the earth in the Metropolitan Tower, New York City. The four bells, weighing 20,000 pounds, cost approximately \$30,000.

The greatest value in any single bell of the present century is represented in the Columbian Liberty Bell, cast in the summer of 1893 for the World's Fair, at Chicago. It is estimated that more than 200,000 men, women and children contributed to this bell in some way, the bell weighing 13,000 pounds and representing the 13 original States. Many offerings were in the form of heirlooms of precious metal and relics from the Civil and Revolutionary wars.

The cost of the modern bell does not compare with some of those cast in ages past. "Tsar Kolokol" (the great bell of Moscow) weighs 492,800 pounds. The bell material alone cost \$340,000, while it is said that more than \$1,000,000 in precious stone and plate were used in its composition. The "Great Tom," Oxford's famous bell, weighs 120,000 pounds; while the heaviest bell in America, in the Cathedral of Montreal, weighs 28,500 pounds. 28,560 pounds.

World's Largest Telescope

World's Largest Telescope

The world's largest telescope (100 inches) is nearing completion at Mount Wilson Observatory, in Pasadena, California. Stars three times farther than the most district one now known will be visible. This lens will be 13 inches thick and weigh four and one-half tons. Galileo's little telescope increased the seeing powder of the human eye about 130 times; the new telescope will increase it 250,000 times. It will probably make visible stars whose light traveling at the rate of 186,300 miles per second requires 150,000 years to reach the earth.

Another large telescope having a main lens 72 inches in diameter is to be erected about 8 miles north of Victoria, B. C. In the beginning of 1914 contracts for the optical parts and the mounting were let to the John A. Brashear Company of Pittsburg and the Wagner and Swasey Company of Cleveland, respectively. It is expected that the completed telescope will be installed by January, 1916. It will cost more than \$90,000.

Study of Earth's Measurements.

Geodosy—Study of Earth's Measurements.

Geodosy—Study of Earth's Surface.

Physiography—Study of the Mountains.

Ethnology—Study of the Mountains.

Ethnology—Study of the Mountains.

Ethnology—Study of the Mountains.

Ethnology—Study of Organic Life.

Palæontology—Study of Deathict Organic Life.

Around the World in Thirty-five Days

Around the World in Thirty-five Days
The world's record for globe-girdling, 39 days, 19 hours, 43 minutes, and 37 4-5 seconds, set by Andre Jaeger-Schmidt of the Paris paper Excelsior in 1911, was broken by 3 days, 22 hours, and 37 seconds on August 6, 1913, when John Henry Mears arrived at the New York Sum office, completing the circuit of the world he had begun under the auspices of that paper a few minutes before 1 o'clock on the morning of July 2. Mears made the world trip of 21,066 miles in 35 days, 21 hours, 43 minutes, and 4-5 second, traveling at an average rate of 587 miles a day, or 24 1-2 miles an hour.

Jacque Stephen Stephen

SHIP CANALS OF THE WORLD

		~ ~ ~ ~ ~	VI OX	TARA	
Canal.	Date of opening	Length (miles).	Depth (feet).	Top.	Bottom.
Amsterdam, connecting Zuider Zee with North Sea Cape Cod Canal Corinth, connecting Gulf of Corinth with the Gulf	1877 1914	16.5 8	23 25	197	89 100
Aegina Cronstadt, St. Petersburg Erie, from Buffalo to Al-	1893 1885	4 17.5	26.2 22		72 200
bany		352	9	70	56
ing NorthSea and Baltic Manchester Ship Canal connecting Manchester,	1895	61.3	29.5	220	72
England, with the Mer- sey River Panama, extending from.	1894	35.5	26	175	120
Colon to the city of Panama and connecting the Atlantic and Pacific Sault Ste. Marie, con- necting the waters of		50.5	41	1,000 to 300	649 to 300
Lake Superior with those of the St. Mary's River and Lake Huron Suez, connecting the Medi- terranean with the Red	1896	2	21		160
Sea	1869	100	31	420	262

*The canal is in the course of being enlarged to accommodate boats of about 3,000 tons burden, and this end it is to be made 12 feet deep, 75 feet wide at the botton and 123 to 171 feet at the surface.

DEEPEST WELLS IN THE WORLD					ne	Locality	Height	By whon ascended	
Location.	Depth	Diameter.	Object.	McKinle	v 1	So. America Alaska E. Africa	20,498	Hudson Stu	ick. 1913
East of Rybnick, Upper Silesia, Germany Schladeback, near Leipsic,	Feet. 6,572	Inches. 3.6 to 2.7	Coal	St. Elias Elbruz		Alaska Caucasus E. Africa	18,100 18,347 16.815	Abruzzi Freshfield. Abruzzi	1897
Knurow, Upper Silesia Springs, 25 miles east of	5,735 4,173	11 to 1.3 192 to 13	Coal.	Blackbur Mont Bl Matteho	n	Maska Switzerland. Switzerland.	16,400 15,781 14,698	Miss Keen Balmat Whymper.	1912 1786 1865
Johannesburg, South Africa	5,582	2 to 13/8		Whitney Rainier.		Switzerland. California Washington.	14,499 14,526	Lucas Stevens	1873
of Randfontein, S. Africa	5,560	2 to 13/8	Diamond.	Erebus.	<i>.</i>	Wyoming Intartic Canada	13,120	David	1908
Turfontein Estates, Johannesburg, South	5,002		Diamond.	DISTAN	VCE OF	THE I	HORIZON	AT V	ARIOUS
Africa. Near Boksberg on the Rand, South Africa	4,845		Diamond.	TT.1-1-4	Dist. to	1	Dist. to		Dist. to
Clerksberg district, South	4,500			Height	Horizon	Height	Horizon	Height	Horizon
In the Vlakfontein district, South Africa. In the Black Reed series, 12 miles south of the	4,003			Feet	Nautical Miles	Feet	Nautical Miles	Feet	Nautical Miles
Main Reef series on the Rand. 2 ½ miles west of West Lilizabeth, Pa	4,500 5,575	10 to 61/4	Diamond.	1 2 3	1.15 1.62 1.99	33 34 35	6.60 6.70 6.80	85 90 95	10.59 10.90 11.19
In Aleppo Township, Greene County, Pa Pittsburgh, Pa	5,322 4,618	13 to 65/8	Gas. Oil or gas.	4 5 6	2.30 2.57 2.81	36 37 38	6.89 6.99 7.08	100 105 110	11.48 11.77 12.05
Pittsburgh, Pa	4,500 4,460	47/8	do	7 8 9	3.04 3.25 3.45	39 40 41	7.17 7.26 7.35	115 120 125	12.32 12.58 12.84
County, PaBuchanan well, 6½ miles south of Burgettstown, Pa			do	10 11 12	3.63 3.81 3.98	42 43 44	7.44 7.53 7.62	130 135	13.10 13.35 13.60
Pa Northampton, Mass New Haven, Conn Renovo, Pa Bimerah Run, Queensland	4,000	, 8	Water. Oil. Water.	13 14	4.14 4.30	45 46	7.70 7.79	140 · 145 · 150	13.83 14.06
Queensland	4,523		do	15 16	4.45	47	7.87	155 160	14.30
Dolgelly bore, New South Wales One well in state of South	4,086	,	do	17 18	4.74 4.87	49 50	8.04 8.12	165 170	14.53 14.75 14.97
* Cost \$40,000. Deepes	4,420	rilled with a ca	ble; deepest	19 20 21	5.01 5.14 5.26	51 52 53	8.20 8.29 8.36	175 180 185	15.19 15.41 15.62
well in the United State † Flow, 1,600,000 gallon CLIMBING WORLI	es; third of a day;	deepest well in the temperature 20	e world. 2 degrees F.	22 23 24	5.39 5.51 5.63	54 55 56	8.44 8.52 8.60	190 195 . 200	15.83 16.04 16.24
The following tables gi different ranges with the or most notable ascent.	ve the n name of	ames of the high f the one who m	nest peaks in ade the first	25 26 27	5.74 5.86 5.97	57 58 59	8.67 8.75 8.82	205 210 215	16.44 16.64 16.84
Name Loca Everest India. Goodwin Austen. India.		Height. By wh ascen 29,002 Unclimb 28,565 Unclimb	ded. ed	28 29 30	6.08 6.19 6.29	60 65 70	8.90 9.26 9.61	220 225 230	17.03 17.23 17.42
Bride Peak India. Kabru India.		25,100 Abruzzi 24,015 Graham (24,470 Unclimb	* 1909 (?) 1883	31 32	6.40	75 80	9.95 10.27	235 240	17.61 17.79
Pyramid Peak India.		23,394 Dr. Wor	kman 1906	By th	is table th	e distance	can be asc	ertained at	which an

Trisul	India	24,015 Longstaff	1906
Aconcagua	So. America	23,080 Vines	1897
Huascaran	So. America	22,182 Unclimbed	1918
Numzkum	India	22,000 Dr. Mario Pia	

By this table the distance can be ascertained at which an object can be seen according to its elevation and the elevation of the eye of the observer.

Example: A tower 200 feet high will be visible at 2034 miles to an observer whose eye is elevated 15 feet above the water.

Thus:

15 feet elevation distance visible 4.45 nautical miles.

Tower 200 feet elevation distance visible 16.24 nautical miles.

cenza..... 1913

^{*} To 24,583 feet, the world's record climb.

WATER POWERS OF THE WORLD

When it is remembered that two cubic feet of water, weighing 125 pounds, by falling a distance of only six feet, will produce one horse-power of energy, it is easy to comprehend that millions one horse-power of energy, it is easy to comprehend that millions and millions of horse-power are wasted every minute by the torrents of water tumbling over Niagara Falls, Victoria Falls, the Yguassu River and many lesser falls throughout the world. This falling water may be guided by concrete penstocks to powerful water turbines which whirl great electric generators. The current produced in this way is easily transmitted for hundreds of miles over small copper wires to the cities and towns, where it is used to haul the railroad trains, to drive the great manufacturing plants and to give us light and heat. The waterpower of Victoria Falls in Rhodesia is estimated to be fully 35,000,000 horse-power, two and one-half times that of Yguassu in South America and eight times that of Niagara. By way of comparison it should be noted that the aggregate water power comparison it should be noted that the aggregate water power of the whole of Europe cannot greatly exceed 35,000,000 horsepower. The demands which are made at present on these falls are modest. The Victoria Falls Power Company ask for only 150,000 horse-power, less than one two-hundredth part of the whole.

The total water power of the Yguassu Fall which is 213 feet high and nearly two miles wide, is estimated as about 14,000,000 horse-power. This is approximately equal to the aggregate water power of all Scandinavia, which is rich in waterfalls, or about ten times the total water power of Germany.

Niagara Falls has an estimated movement of 220,000 cubic feet per second. The descent at the falls and in the rapids above generates a theoretical horse-power of 4,000,000, three-fourths of which is practically available. Approximately 15,000 cubic feet of the water has been harnessed but much larger appropriations have been authorized.

Other Waterfalls

Asia is comparatively poor in large waterfalls, which are found most abundantly in Africa and North America. The largest African streams especially are interrupted by many falls of

considerable height. The Congo has several high falls which, owing to the great volume of the river (about 16 times that of the Nile), may be counted among the most important sources of water power on earth. The Stanley Falls, in the middle reach of the river, consist of seven successive falls, of a total height of 164 feet and a width of nearly 4,000 feet, and offer an exceedingly rich source of power, which probably will soon be exploited.

Still more important is the total water power which the Kongo develops in the non-navigable section extending from its mouth to Stanley Pool. Here the river, confined in a channel only a few hundred yards wide and with a depth of water of nearly 300 feet, flows with a velocity of 48 feet as econd, so that at every point of the stream 25,000 to 30,000 cubic meters, or about 1,000,000 cubic feet of water are hurled along with irresistible force, while 32 rapids and waterfalls lower the level of the stream 125,000 to 30,000 cubic feet of water are hurled along with irresistible force, while 32 rapids and waterfalls lower the level of the stream by 820 feet in a stretch of 170 miles.

The most voluminous of European waterfalls are the Rhine Falls at Schaffhausen, but the highest are the Rjukan Falls of the Mann-Elf River in the Norwegian province of Telemarken. The two chief falls, with the intervening rapids, amount to 1837 feet, while the average flow is 1760 cubic feet per second. The Rjukan Falls, with their total energy of 250,000 horse-power, have been converted to industrial uses.

In Sweden, the Falls of Trolhatta are the most celebrated. They have been nearly all employed for the production of electricity. The government itself has recently established here a power station with a capacity of 40,000 horse-power. This, a power station with a capacity of 40,000 horse-power. This, now the largest water power plant station in Europe, will soon be surpassed, however, by the station at Rjukan in Norway and by a still larger station in the north of Sweden, which will serve for the operation of the Lofoden railway. The Porjus Falls, at which the last mentioned station will be placed, is only one fall, or rapid, of a long series formed by the Lule-Elf near its source in the lake region of Lapland. The Porjus power station is expected to reach completion in 1914 and to develop soon afterward about 80,000 horse-power, and it is estimated that its total water power in summer after its sources of supply have been regulated, will be about 300,000 horse-power. been regulated, will be about 300,000 horse-power.

WORLD'S DEVELOPMENT OF POPULATION, PRODUCTION, VESSEL TONNAGE, AND COMMERCE (1800 to 1913)

Year.	7	Commerce		Nominal tonnage of Vessels.		70 "7		,	Produ coal	Gold pro- duction,		
	Popu- lation.	Total.	Per capita	Sail.	Steam.	Rail- ways.	Tele- graphs.	Cables.	Cotton.	Coal.	Pig iron.	decade ending year named.
1800 1820 1830 1840 1850 1860 1870 1880 1890 1900 1910 1911 1912 1913	Millions 8 640 4 780 4 847 5 950 5 1,075 6 1,205 6 1,310 7 1,439 8 1,488 1,543 1,579 1,616 1,630 1,643 1,652	Million dollars. 1,479 1,659 1,981 2,789 4,049 4,049 7,246 10,663 14,761 17,519 20,105 27,418 33,634 35,909 39,570 40,420	Dollars. 2.31 2.13 2.34 2.93 3.76 6.01 8.14 10.26 11.80 13.02 17.36 20.81 21.71 24.08	1,000 tons.1 4,026 5,814 7,100 9,012 11,470 14,890 12,900 14,400 9,166 6,674 5,809 4,624 4,466 4,038 3,891	1,000 tons.1 20 111 368 864 1,710 3,040 5,880 8,295 13,857 19,713 22,056 23,932 24,978 26,517	1,000 miles.1 0.2 5.4 24.0 67.4 139.9 224.9 2390.0 500.0 637.0 666.0 683.4 690.2	1,000 miles. 5 100 281 440 768 1,180 1,200 1,307 1,356 1,400 1,462	1,000 miles. 11/2 15 49 132 200 9 270 291 12 318 12 320 12 330	13 10,729	142.3 213.4 340.0	1.0 1.8 2.7 4.7 7.2 11.9 18.0 27.2 40.4 58.7 65.8 62.4	Million dollars.2 128.5 76.1 94.5 76.1 94.5 134.8 363.9 1,334.0 1,150.8 1,060.1 2,100.0 3,099.8 3,780.3 4,242.2 4,708.4

- 1 Mulhall's estimates except for 1830, 1890, 1900, 1906, and later years.

- and later years.

 Soetbeer's estimates prior to 1860.

 Malte-Brun's estimate for 1804.

 Based on Balbi's estimate for 1828.

 Based on Michelet's estimate for 1845.

 Based on Behm-Wagner's estimate for 1874.

 Levasseur's estimate for 1878.
- 8 Royal Geographic Society's estimate.

- Figures of the Berne International Institute

- or Figures of the Bureau of the Census, representing net weight for mill consumption.

 Figures of the Geological Survey.

 Estimate of the Imperial Post Office of Germany for June
- 30, 1912.

 18 Preliminary estimate of the Bureau of Census
 14 Partly estimated.

RAILWAY, TELEGRAPH AND POSTAL STATISTICS OF THE WORLD

KAIDWAI, IEDEGKA			nha -	,,	Miles of
Country	?ailways	Telegra Miles of	Miles of	Post	postal
Country	Miles	line	wire	offices	routes
Argentina	21,909	. 45,272	142,104	3,875	50,107
Argentina. Australasia: Commonwealth of Australia	19,687	. 51,969	109,712	8,264	137,314
New Zealand	2,889	. 13,044	44,642	2,383	
Austria-Hungary:	15 621	. 31,499	154,945	10,726	162,286
Austria (inc. Bosnia, Herzegovina)					
Hungary	5,451		28,014	1,708	5,828
Belgium	882	. 1,622	1,622	50	13,919
Rolivia	895	. 3.811	5,562	200	
Brazil Bulgaria	15,279	. 36,199	73,124	3,415	92,312
Bulgaria	1,388	4,122 8 52,384	9,687 162,779	409	15,238
Canada. Central American States:	29,304	. 032,304	-3-4-2-0 102,119	14,170	
Costa Rica	402		1,521	204	
Guatemala	502		3,783	323	
Honduras	174	305	3,212	278	
Nicaragua	200		3,637	151	
Panama	298		2,841	96	1 2/2
Salvador	198 3,958	. 22,384	30,287	117 1,104 6,816	28 752
China	6,123	36,350	58,948	6.816	133.000
Colombia	621	. 11.721	4 11,721	608	
Cuba	2,331	. 5,065	6,184	574	5,324
Denmark Dominican Republic	2.419	. 2.293	8,373	1,665	6,477
Dominican Republic	400	. 1,269	1,269	105	
Ecuador. Egypt.	3,707	. 3,318 5 9,517		151 2,027	6,979
France	31,958	. 118,129	441,519	14,634	81,172
Algeria	2,169	9,559	24,878	673	8,339
Tunis	1,027	2.861	10.005	441	5.300
French Indo-China	1,185	. 8,738	15.805	324	21,572
French colonies, n. e. s	1,948	. ZU.ZD9	26,927	548	41,00U
German Empire	39,532	. 148,192	4/5,551,	51,151	90,656
Greece Greece	2,856 1,396	5,257 5,675	6,570 10,487	1,342	
Crete	*,070		4 310		
Haiti	140	. 124	124	88	
Haiti India, British	33,484	. 78,862	311,034	19,855	155,731
Italy	⁶ 11,105	. ' 34,304	,	11,137	44,168
Japan	5,985	. 24,945	110,900	7,889	59,451
Formosa		. 613 3,743	2,213 9,373	140 485	7,746
Luxemburg	326	441	1,356	154	709
Mexico	10,103	. 0 22,452	° 40.437	4.091	31,0/9
Montenegro	11		579	21	
Netherlands	2,023	4,808	23,/02,	1,525	10,032
Netherlands. Dutch East Indies. Dutch possessions in America	1,673	. 10,100	15,884	1,525 1,758 17	3,002,074
Norway	1,921		13,993	3,594	47,310
Paraguay	232	2,485	4 2,485	385	47,010
Persia	34	. 6.312	10,754	173	10,031
Peru	1,719	. 9,321		750	17,984
Portugal Portuguese colonies	1,854	5,556	12,604	4,081	
Roumania	1,069 2,338	6,657	8,018	843	59,799
Russia	46.586	5,177 - • 134.054	14,996 9 471,067	3,039 16,991	65,873
Russia. Finland.	2,338	.(10)	(10)		217,904
Servia	912	2,736	5.192	1.507	2.121
Siam	702	4.527		243	4.954
Spain	9,538	20.079			
Sweden Switzerland	8,868 3,176	6,331		4,139	42,377
Turkey	4,264	2,191 21,154	16,486 37,644	4,334	7,965 24,072
Turkey Union of South Africa	8,393	15 236	56.860	2.654	8,499
United Kingdom	23 441	11 75 042	11 2 661 279	24 407	
British colonies, n. e. s.	8,424	. 30,165	6 35,138	2,392	
British colonies, n. e. s. United States ² . Philippine Islands ² . Philippine Islands ² .	251,984	.18 238,033	13 1,562,497	56,810	435,598
Philippine Islands 2 Porto Rico 2	708	4,615	7,420	589	14
Uruguay	340				24 440
Venezuela	0.54	4.902	4 4.902	959 284	
Total	684,186	. 1,402,380	/ . / / 3 . 0 0 0	318.493	5.351.257
¹ Not included in grand totals. ² Fro ⁵ Includes 4.930 miles of line and 9.89	m United States	returns. 8 Total	for chartered compan	ies only. 4 Incom	plete data
5 Includes 4 930 miles of line and 9 80	6 miles of wire in	the Soudan 6 T	naludes 67 miles in I	ibin and 75 miles in	Twethree

Fincludes 4,930 miles of line and 9,896 miles of wire in the Soudan. Includes 67 miles in Libia and 75 miles in Erythrea. Includes 1,779 miles of line and 2,262 miles of wire in Erythrea and Libia. Federal telegraphs only.
Includes police, railway, and private lines. Included with Russia. Includes telephones.

Includes very of railway milesge in Alaska and Hawaii. Included with the United States.

Included with the United States.

SEVEN WONDERS OF THE WORLD

According to the works of Philo of Byzantium

The Pyramids of Egypt.—The only one of the Seven Wonders of the World still standing is the Pyramids of Egypt. finishings, no such receptacle for the dead ever existed before Wonder of the World still standing is the Pyramids of Egypt, the Gizeh group. The great pyramid is 481½ feet high and each side at base is 755% feet wide. All of these pyramids were undoubtedly built for tombs. They are remarkable for the manner in which they are hermetically sealed.

The date of these pyramids is variously fixed as between 2450 the seven works of the world.

The Hanging Gardens of Semiramis at Babylon.-The Hanging Gardens of Semiramis at Babylon.— These gardens were in existence a number of centuries before the birth of Christ. The gardens are supposed to have occupied a square with an area of nearly four acres. They rose in terraces being supported by pillars across which were placed stones, covered with reeds and bitumen and again with bricks united by cement. Above these were sheets of lead to prevent the water from trickling through.

The Golosus of Rhodes.—Probably greatest statue ever erected in the world. It was set up in honor of the Sun by Charles of Lindus in 200 or 288 B. C. It was thrown down by an earthquake after being in position for a period limited to fifty years. The figure is said to have stood upon two capes, a leg being extended on each side of the harbor, so that a vessel under full sail could pass between. Its height was 70 cubits.

The Mausoleum at Halicarnassus.—Erected for King Mausolus of Caria by his disconsolate Queen Artemesia in 353 B. C. It represented the classic period of Greece. In size, in the beauty of its proportions and in the magnificence of its

the seven wonders of the world.

the seven wonders of the world.

The Pharos of Alexandria.—Pharo and faro are the French and Italian names for lighthouse. This lighthouse was placed on the island of Pharos at the entrance to the port of Alexandria. It, was not only unique and a marvel in its aspect, but, unlike the other seven wonders, it served a useful purpose. The idea of a lighthouse was no doubt suggested to the monarch as a development of the beacon fires which in remoter antiquity were often kept burning at the entrance to a harbor to guide belated ships.

The Temple of Diana at Ephesus.—This wonderful building, the grandest temple structure the Greeks ever readed and which was considered one of the wonders of the world was

building, the grandest temple structure the Greeks ever reared and which was considered one of the wonders of the world, was designed by Deinocrates. It was 425 feet long, 220 feet wide and the number of the columns 128, of which 36 were carved. The height of the columns was 60 feet. It supplanted a temple bearing the same name, which was set on fire in the year 356 B.C. by one Horostratus, who had failed to make himself famous in any other way. The last temple was four times the size of the Parthenon, and ampler than the Milan Cathedral or St. Paulls London. or St. Paul's, London.

SEVEN MODERN WONDERS OF THE WORLD

Antiseptics and Antitoxins.—The discovery of the germ theory and the use of antitoxins and antiseptics has undoubtedly saved more lives than any other one agent in the world. New antitoxins are being discovered every year. Think how the knowledge of germs has aided humanity in such diseases as smallpox, diphtheria, yellow fever and the latest—typhoid

Lister, pondering over Pasteur's discovery, conceived the idea that if microbes could be killed or excluded from the field of operation, the mortality and suffering from surgery might be reduced. Thus was antisepsis introduced to surgery. Hos-pital gangrene, erysipelas and blood poisoning, once the scourges of hospitals and army camps, are now almost unknown after operation.

Wireless.—Wireless telegraphy under the masterful hand of Guglielmo Marconi sprang into commercial success in a re-markably short space of time.

markably short space of time.

The waves or vibrations that make wireless telegraphy possible are in many respects similar to those of light. They travel at the same speed of 186,330 miles a second. There are several ways of producing these waves, but the one in common use is called the spark method. Briefly, it is this: An induction coil or high tension transformer is connected to an electric current supply so as to produce a spark across an air space. By opening or closing an ordinary telegraph key the operator causes a spark of longer or shorter duration to jump across the air space. This spark produces the vibrations by virtue of its oscillatory character. oscillatory character.

People a century ago would have believed it incredible that a message could be sent from the shore to the middle of the

ocean in less than a minute.

Telephone.—The telephone is one of the oldest of our modern wonders. The period that marks its incipiency was the years 1874 to 1877. Alexander Graham Bell was the in-

During the summer of 1874, while on a visit to his father's home the thought of the membrane telephone was elaborated. It was a theoretical conception of the magneto telephone—that the vibrations of the voice might create electrical impulses like the aerial impulses and produce an audible result at the

Other end.

On his return to Boston, in October, and all through the winter and spring of 1875, instead of making the apparatus and experimenting, he was attempting to devise methods of increasing the strength of these electrical undulations. Then came the discovery that a magneto-electric current would produce by itself sonorous effects at a receiving station. In a moment all the difficulties in the way of a practical solution

of the telephone disappeared. What would New York City with its 500,000 telephones do to-day without them.

The Internal Combustion Engine.—The perfection of the internal combustion engine has been responsible for the development of the automobile, motor boat and areoplane. It is safe to say that the areoplane would be a practical failure without such an engine. The Wright Brothers' first flying machine was driven by gasoline explosion, although Langley launched a steam monoplane model in 1896 which travelled over 3,000 feet.

Roentgen Rays.—The discovery of the X-rays resulted from the accidental observation made by Prof. Wilhelm Conrad Roentgen of the University of Wurzburg that certain crystals in the vicinity of a vacuum tube with which he was experimenting in the vicinity of a vacuum tube with which he was experimenting glowed with a phosphorescent light, even when opaque substances were interposed between the tube and the shining crystals. Further experimenting showed that the tube was giving off a radiation, which, though quite invisible to the eye had the power of affecting photographic plates, and passed through flesh and bone, metal plates, blocks of wood, and practically all opaque substances, almost as readily as light recess through a sheet of glass.

This remarkable discovery has been a wonderful aid to surgeons and physicians in locating trouble in a man's anatomy.

Modern Chemistry.—Chemistry is one of the oldest arts known to civilization, yet it is only in recent times that knowledge of the combinations of molecules and atoms has been of great practical benefit to the human race. One of the greatest modern benefits of analytical chemistry has been the analysis of the soil and the consequent knowledge of just what to apply to it to make it the most productive. Scientific farming is truly a modern wonder. Synthetic chemistry also deserves to be mentioned because it has created in the laboratories, without plants or animals substances which have been very valuable in the arts and sciences.

The Spectroscope.—The spectroscope has had little to do with our practical lines, but it has been of immense value to the scientist. Newton was the first to discover that a glass prism will separate a beam of 1 ght into its component colors—the colors of the rainbow. Fraunhofer a century and a half later discovered dark parallel bands varying in width running across the colors of the solar spectrum. By noting the spectrum made by the light rays of different elements it has been possible to tell what the stars and planets are made of. The spectroscope is also used to a great extent in analyzing chemical substances. It has been the means of discovering many new elements. It has been the means of discovering many new elements.

PRINCIPAL COUNTRIES OF THE WORLD

Alpeanstan Absolute Monarchy	COUNTRY	FORM OF GOVERNMENT	CAPITAL	Area Sq. Ml.	LATEST POPULATION
Albania Cambel Monarchy Shutari 11,317 1,000,600	Abvssinia	Absolute Monarchy		350,000	8,000,000
Argentina Belgiam Kongo Belgiam Argentina Belgiam Kongo Belgiam Kongo Belgiam Kongo Belgiam Kongo Belgiam Argentina Belgiam Kongo Belgiam Kongo Belgiam Kongo Belgiam Kongo Belgiam Argentina Belgiam Kongo Belgiam Kongo Belgiam Kongo Belgiam Kongo Belgiam Argentina Belgiam Kongo Belgiam Argentina Belgiam Kongo Belgiam Argentina Belgiam Kongo Belgiam Rogentina Belgiam Kongo Belgiam Rogentina Belgiam Kongo Belgiam Rogentina Be	Afghanistan	Absolute Monarchy	Kabul	250,000	5,900,000
Argentina Belgiam Kongo Belgiam Argentina Belgiam Kongo Belgiam Kongo Belgiam Kongo Belgiam Kongo Belgiam Argentina Belgiam Kongo Belgiam Kongo Belgiam Kongo Belgiam Kongo Belgiam Argentina Belgiam Kongo Belgiam Kongo Belgiam Kongo Belgiam Kongo Belgiam Argentina Belgiam Kongo Belgiam Argentina Belgiam Kongo Belgiam Argentina Belgiam Kongo Belgiam Rogentina Belgiam Kongo Belgiam Rogentina Belgiam Kongo Belgiam Rogentina Be		Limited Monarchy	Andorra	11,317	5.231
Belgium Kogo	Argentina	Republic	Buenos Aires	1,153,119	7,500,000
Belgium Kogo	Australia	Commonwealth	Canberra	3,063,041	5,202,652
Billion	Austria-Hungary	Limited Monarchy	Vienna, Budapest	261,107	51,059,810
Billion	Belgium	Limited Monarchy	Brussels	11,373	15 000 000
Cota Republic San Jose 23,000 420,179 Cuba Republic Havana 44,164 2,382,775,076 Denmark Colonies of Limited Monarchy Copenhagen 15,382 2,775,076 Dominican Republic Republic Republic Copenhagen 15,382 2,775,076 Dominican Republic Republic Copenhagen 15,382 2,775,076 Dominican Republic Republic Copenhagen 15,382 2,775,076 Dominican Republic Republic Copenhagen 16,000 15,000,000 Dominican Republic Republic Copenhagen 16,000 15,000,000 Dominican Republic Paris 207,054 39,610,509 France Republic Paris 207,054 39,610,509 Germany Colonies of Limited Monarchy Berlin 202,780 6,812,000 Germany Colonies of Limited Monarchy London 120,780 6,812,000 Germany Colonies of Limited Monarchy London 120,780 6,812,000 Germany Colonies of Limited Monarchy London 58,340 30,700,422 Geotal Limited Monarchy Edinburgh 30,485 4,760,942 Greece Limited Monarchy Athens 44,778 4,8124 Guatemala Republic Guatemala City 48,390 2,119,165 Guatemala Republic Guatemala City 48,390 2,119,165 Guatemala Limited Monarchy Delhi 1,802,629 315,156,396 Italy Limited Monarchy Delhi 1,802,629 315,156,396 Italy Limited Monarchy Delhi 1,802,629 315,156,396 Italy Limited Monarchy Colonies of Limited Monarchy Delhi 1,802,629 315,156,396 Italy Limited Monarchy Colonies of Colonies	Belgian Kongo		Punakha and Tasichozong*	20,000	250,000
Cota Republic San Jose 23,000 420,179 Cuba Republic Havana 44,164 2,382,775,076 Denmark Colonies of Limited Monarchy Copenhagen 15,382 2,775,076 Dominican Republic Republic Republic Copenhagen 15,382 2,775,076 Dominican Republic Republic Copenhagen 15,382 2,775,076 Dominican Republic Republic Copenhagen 15,382 2,775,076 Dominican Republic Republic Copenhagen 16,000 15,000,000 Dominican Republic Republic Copenhagen 16,000 15,000,000 Dominican Republic Paris 207,054 39,610,509 France Republic Paris 207,054 39,610,509 Germany Colonies of Limited Monarchy Berlin 202,780 6,812,000 Germany Colonies of Limited Monarchy London 120,780 6,812,000 Germany Colonies of Limited Monarchy London 120,780 6,812,000 Germany Colonies of Limited Monarchy London 58,340 30,700,422 Geotal Limited Monarchy Edinburgh 30,485 4,760,942 Greece Limited Monarchy Athens 44,778 4,8124 Guatemala Republic Guatemala City 48,390 2,119,165 Guatemala Republic Guatemala City 48,390 2,119,165 Guatemala Limited Monarchy Delhi 1,802,629 315,156,396 Italy Limited Monarchy Delhi 1,802,629 315,156,396 Italy Limited Monarchy Delhi 1,802,629 315,156,396 Italy Limited Monarchy Colonies of Limited Monarchy Delhi 1,802,629 315,156,396 Italy Limited Monarchy Colonies of Colonies	Bolivia	Republic	Sucre: La Pazt	708,195	2,520,540
Cota Republic San Jose 23,000 420,179 Cuba Republic Havana 44,164 2,382,775,076 Denmark Colonies of Limited Monarchy Copenhagen 15,382 2,775,076 Dominican Republic Republic Republic Copenhagen 15,382 2,775,076 Dominican Republic Republic Copenhagen 15,382 2,775,076 Dominican Republic Republic Copenhagen 15,382 2,775,076 Dominican Republic Republic Copenhagen 16,000 15,000,000 Dominican Republic Republic Copenhagen 16,000 15,000,000 Dominican Republic Paris 207,054 39,610,509 France Republic Paris 207,054 39,610,509 Germany Colonies of Limited Monarchy Berlin 202,780 6,812,000 Germany Colonies of Limited Monarchy London 120,780 6,812,000 Germany Colonies of Limited Monarchy London 120,780 6,812,000 Germany Colonies of Limited Monarchy London 58,340 30,700,422 Geotal Limited Monarchy Edinburgh 30,485 4,760,942 Greece Limited Monarchy Athens 44,778 4,8124 Guatemala Republic Guatemala City 48,390 2,119,165 Guatemala Republic Guatemala City 48,390 2,119,165 Guatemala Limited Monarchy Delhi 1,802,629 315,156,396 Italy Limited Monarchy Delhi 1,802,629 315,156,396 Italy Limited Monarchy Delhi 1,802,629 315,156,396 Italy Limited Monarchy Colonies of Limited Monarchy Delhi 1,802,629 315,156,396 Italy Limited Monarchy Colonies of Colonies	Brazil	Republic	Rio de Janeiro	3,291,416	24,308,219
Cota Republic San Jose 23,000 420,179 Cuba Republic Havana 44,164 2,382,775,076 Denmark Colonies of Limited Monarchy Copenhagen 15,382 2,775,076 Dominican Republic Republic Republic Copenhagen 15,382 2,775,076 Dominican Republic Republic Copenhagen 15,382 2,775,076 Dominican Republic Republic Copenhagen 15,382 2,775,076 Dominican Republic Republic Copenhagen 16,000 15,000,000 Dominican Republic Republic Copenhagen 16,000 15,000,000 Dominican Republic Paris 207,054 39,610,509 France Republic Paris 207,054 39,610,509 Germany Colonies of Limited Monarchy Berlin 202,780 6,812,000 Germany Colonies of Limited Monarchy London 120,780 6,812,000 Germany Colonies of Limited Monarchy London 120,780 6,812,000 Germany Colonies of Limited Monarchy London 58,340 30,700,422 Geotal Limited Monarchy Edinburgh 30,485 4,760,942 Greece Limited Monarchy Athens 44,778 4,8124 Guatemala Republic Guatemala City 48,390 2,119,165 Guatemala Republic Guatemala City 48,390 2,119,165 Guatemala Limited Monarchy Delhi 1,802,629 315,156,396 Italy Limited Monarchy Delhi 1,802,629 315,156,396 Italy Limited Monarchy Delhi 1,802,629 315,156,396 Italy Limited Monarchy Colonies of Limited Monarchy Delhi 1,802,629 315,156,396 Italy Limited Monarchy Colonies of Colonies	British Empire	Limited Monarchy	London	13,123,712	434,686,650
Cota Republic San Jose 23,000 420,179 Cuba Republic Havana 44,164 2,382,775,076 Denmark Colonies of Limited Monarchy Copenhagen 15,382 2,775,076 Dominican Republic Republic Republic Copenhagen 15,382 2,775,076 Dominican Republic Republic Copenhagen 15,382 2,775,076 Dominican Republic Republic Copenhagen 15,382 2,775,076 Dominican Republic Republic Copenhagen 16,000 15,000,000 Dominican Republic Republic Copenhagen 16,000 15,000,000 Dominican Republic Paris 207,054 39,610,509 France Republic Paris 207,054 39,610,509 Germany Colonies of Limited Monarchy Berlin 202,780 6,812,000 Germany Colonies of Limited Monarchy London 120,780 6,812,000 Germany Colonies of Limited Monarchy London 120,780 6,812,000 Germany Colonies of Limited Monarchy London 58,340 30,700,422 Geotal Limited Monarchy Edinburgh 30,485 4,760,942 Greece Limited Monarchy Athens 44,778 4,8124 Guatemala Republic Guatemala City 48,390 2,119,165 Guatemala Republic Guatemala City 48,390 2,119,165 Guatemala Limited Monarchy Delhi 1,802,629 315,156,396 Italy Limited Monarchy Delhi 1,802,629 315,156,396 Italy Limited Monarchy Delhi 1,802,629 315,156,396 Italy Limited Monarchy Colonies of Limited Monarchy Delhi 1,802,629 315,156,396 Italy Limited Monarchy Colonies of Colonies	Bulgaria	Limited Monarchy	Ottown	43,310 3 720 665	8.075.000
Cota Republic San Jose 23,000 420,179 Cuba Republic Havana 44,164 2,382,775,076 Denmark Colonies of Limited Monarchy Copenhagen 15,382 2,775,076 Dominican Republic Republic Republic Copenhagen 15,382 2,775,076 Dominican Republic Republic Copenhagen 15,382 2,775,076 Dominican Republic Republic Copenhagen 15,382 2,775,076 Dominican Republic Republic Copenhagen 16,000 15,000,000 Dominican Republic Republic Copenhagen 16,000 15,000,000 Dominican Republic Paris 207,054 39,610,509 France Republic Paris 207,054 39,610,509 Germany Colonies of Limited Monarchy Berlin 202,780 6,812,000 Germany Colonies of Limited Monarchy London 120,780 6,812,000 Germany Colonies of Limited Monarchy London 120,780 6,812,000 Germany Colonies of Limited Monarchy London 58,340 30,700,422 Geotal Limited Monarchy Edinburgh 30,485 4,760,942 Greece Limited Monarchy Athens 44,778 4,8124 Guatemala Republic Guatemala City 48,390 2,119,165 Guatemala Republic Guatemala City 48,390 2,119,165 Guatemala Limited Monarchy Delhi 1,802,629 315,156,396 Italy Limited Monarchy Delhi 1,802,629 315,156,396 Italy Limited Monarchy Delhi 1,802,629 315,156,396 Italy Limited Monarchy Colonies of Limited Monarchy Delhi 1,802,629 315,156,396 Italy Limited Monarchy Colonies of Colonies	Chile	Republic	Santiago	292,420	3.596.541
Cota Republic San Jose 23,000 420,179 Cuba Republic Havana 44,164 2,382,775,076 Denmark Colonies of Limited Monarchy Copenhagen 15,382 2,775,076 Dominican Republic Republic Republic Copenhagen 15,382 2,775,076 Dominican Republic Republic Copenhagen 15,382 2,775,076 Dominican Republic Republic Copenhagen 15,382 2,775,076 Dominican Republic Republic Copenhagen 16,000 15,000,000 Dominican Republic Republic Copenhagen 16,000 15,000,000 Dominican Republic Paris 207,054 39,610,509 France Republic Paris 207,054 39,610,509 Germany Colonies of Limited Monarchy Berlin 202,780 6,812,000 Germany Colonies of Limited Monarchy London 120,780 6,812,000 Germany Colonies of Limited Monarchy London 120,780 6,812,000 Germany Colonies of Limited Monarchy London 58,340 30,700,422 Geotal Limited Monarchy Edinburgh 30,485 4,760,942 Greece Limited Monarchy Athens 44,778 4,8124 Guatemala Republic Guatemala City 48,390 2,119,165 Guatemala Republic Guatemala City 48,390 2,119,165 Guatemala Limited Monarchy Delhi 1,802,629 315,156,396 Italy Limited Monarchy Delhi 1,802,629 315,156,396 Italy Limited Monarchy Delhi 1,802,629 315,156,396 Italy Limited Monarchy Colonies of Limited Monarchy Delhi 1,802,629 315,156,396 Italy Limited Monarchy Colonies of Colonies	China	Republic	Peking	4,277,170	439,214,000
Carean C	Colombia	Republic	LISOPOTA I	438,436	5,472,604
Carean C	Costa Rica	I Republic	San Jose	23,000	420,179
Dominican Republic Republic Santo Dominigo 19.325 708.000	Cuba	Republic	Havana	44,104	2,382,990
Dominican Republic Republic Santo Dominigo 19.325 708.000	Denmark Colonies of		Copennagen	87.174	143,143
Equation	Dominican Republic	Republic	Santo Domingo	19,325	708,000
France Colonies of	Ecuador	Republic	. Uuito	116,000	1,500,000
France Colonies of	Egypt	Limited Monarchy	Cairo	360,000	11,287,359
Countemnala Republic Guatemnala City 48.290 2.119,165 Haiti Republic Port an Prince 10,204 2,500 Honduras Republic Port an Prince 46,230 5.20 Honduras Limited Monarchy Delhi 1,802,629 315,156, 306 Italy	France	Republic	Paris	207,054	39,601,509
Countemnala Republic Guatemnala City 48.290 2.119,165 Haiti Republic Port an Prince 10,204 2,500 Honduras Republic Port an Prince 46,230 5.20 Honduras Limited Monarchy Delhi 1,802,629 315,156, 306 Italy	Commonwe	Limited Monarchy	Roylin	208 780	67.812.000
Countemnala Republic Guatemnala City 48.290 2.119,165 Haiti Republic Port an Prince 10,204 2,500 Honduras Republic Port an Prince 46,230 5.20 Honduras Limited Monarchy Delhi 1,802,629 315,156, 306 Italy	Germany Colonies of		Derim	1.027.820	12.065,992
Countemnala Republic Guatemnala City 48.290 2.119,165 Haiti Republic Port an Prince 10,204 2,500 Honduras Republic Port an Prince 46,230 5.20 Honduras Limited Monarchy Delhi 1,802,629 315,156, 306 Italy	Great Britain and Ireland	Limited Monarchy	London	121,331	45,211,615
Countemnala Republic Guatemnala City 48.290 2.119,165 Haiti Republic Port an Prince 10,204 2,500 Honduras Republic Port an Prince 46,230 5.20 Honduras Limited Monarchy Delhi 1,802,629 315,156, 306 Italy	England			58,340	36,070,492
Countemnala Republic Guatemnala City 48.290 2.119,165 Haiti Republic Port an Prince 10,204 2,500 Honduras Republic Port an Prince 46,230 5.20 Honduras Limited Monarchy Delhi 1,802,629 315,156, 306 Italy	Ireland		Dublin	32,586	4,390,219
Countemnala Republic Guatemnala City 48.290 2.119,165 Haiti Republic Port an Prince 10,204 2,500 Honduras Republic Port an Prince 46,230 5.20 Honduras Limited Monarchy Delhi 1,802,629 315,156, 306 Italy	Scotland	Limited Monorchy	Edinburgh		4,/00,904
Tally	Guatemala	Republic	Guatemala City	44,778	2 110 165
Tally	Haiti	Penublic	Port au Prince	10,204	2,500,000
Tally	Honduras	Republic	Tegucigalpa	46,250	562,000
Tally, Colonies of	India	Limited Monarchy	1.7CIIII	1,802,629	315,156,396
Liechtenstein	Italy Colonies of	Limited Monarchy	Rome	110,632	36,120,118
Liechtenstein		Limited Monorchy	Tolyro	590,805 147,600	1,203,924
Liechtenstein	Japan, Dependencies of	.†	TORYOLLLING	97 942	21 017 829
Luxemburg	Liberia	Republic	Monrovia	40,000	2,000,000
Mexico	Liechtenstein	Monarchy	Vaduz	65	10,716
New Zealand	Luxemburg	Limited Monarchy	Luxemburg	998	259,891
New Zealand		Limited Monarchy	Monaco City		15,501,080
New Zealand	Montenegro	Limited Monarchy	Cetinie	5.600	516,000
New Zealand	Morocco	Limited Monarchy	Fez_	225,000	5,000,000
New Zealand	Nepal	Absolute Monarchy	Khatmandu	54,000	5,000,000
New Zealand	Netherlands Colonies of	Limited Monarchy	The Hague	12,582	6,339,705
Nicaragua Republic Manarua 49,532 703,540	New Zealand			832,473	38,000,000
Paraguay Republic Asuncion 196,000 800,000 Persia Limited Monarchy Teheran 630,000 9,500,000 Peru Republic Lima 683,321 5,800,000 Portugal Republic Lisbon 35,490 5,957,895 Portugal, Colonies of 802,952 9,245,000 800 Russia Limited Monarchy Bukharest 53,489 7598,000 Russia Absolute Monarchy Petrograd 84,17,118 178,378,800 Russia, Dependencies of San Salvador 7,225 1,225,835 San Marino Republic San Marino 38 11,513 Serbia Limited Monarchy Belgrade 33,891 4,547,908 Spain Limited Monarchy Bangkok 195,000 8,149,498 Spain Limited Monarchy Madrid 194,783 20,355,983 Sweden Limited Monarchy Stockholm 172,963 5,680,500 Swetzerland Republic Bern 172,963 <td>Nicaragua</td> <td>Republic</td> <td>Managua</td> <td>40 522</td> <td>703 540</td>	Nicaragua	Republic	Managua	40 522	703 540
Paraguay Republic Asuncion 196,000 800,000 Persia Limited Monarchy Teheran 630,000 9,500,000 Peru Republic Lima 683,321 5,800,000 Portugal Republic Lisbon 35,490 5,957,895 Portugal, Colonies of 802,952 9,245,000 800 Rournania Limited Monarchy Bukharest 53,489 7598,000 Russia Absolute Monarchy Petrograd 8,417,118 178,378,800 Russia, Dependencies of San Salvador 7,225 1,225,835 San Marino Republic San Marino 38 11,513 Serbia Limited Monarchy Belgrade 33,891 4,547,908 Spain Limited Monarchy Bangkok 195,000 8,149,498 Spain Limited Monarchy Madrid 194,783 20,355,983 Sweden Limited Monarchy Stockholm 172,963 5,680,500 Swetzerland Republic Bern 172,963<		Limited Monarchy	Christiania	124,643	2.391.782
Paraguay Republic Asuncion 196,000 800,000 Persia Limited Monarchy Teheran 630,000 9,500,000 Peru Republic Lima 683,321 5,800,000 Portugal Republic Lisbon 35,490 5,957,895 Portugal, Colonies of 802,952 9,245,000 800 Rournania Limited Monarchy Bukharest 53,489 7598,000 Russia Absolute Monarchy Petrograd 8,417,118 178,378,800 Russia, Dependencies of San Salvador 7,225 1,225,835 San Marino Republic San Marino 38 11,513 Serbia Limited Monarchy Belgrade 33,891 4,547,908 Spain Limited Monarchy Bangkok 195,000 8,149,498 Spain Limited Monarchy Madrid 194,783 20,355,983 Sweden Limited Monarchy Stockholm 172,963 5,680,500 Swetzerland Republic Bern 172,963<	Oman	Absolute Monarchy	Maskat	82,000	500,000
Peru Republic Lima 683,321 5,800,000 Portugal Republic Lisbon 35,490 5,957,895 Portugal, Colonies of 802,952 9,245,000 802,952 9,245,000 Rournania Limited Monarchy Bukharest 53,489 7,568,000 Russia Absolute Monarchy Petrograd 8,417,118 178,378,800 Russia, Dependencies of San Salvador 7,225 1,225,835 Salvador 7,225 1,225,835 38 11,513 Serbia Limited Monarchy Belgrade 33,891 4,547,990 Slam Absolute Monarchy Bangkok 195,000 8,149,487 Spain Limited Monarchy Madrid 194,783 20,355,983 Spain Limited Monarchy Stockholm 171,963 5,680,500 Sweden Limited Monarchy Constantinople 710,000 21,275,000 Turkey & tributary states Limited Monarchy Constantinople 710,000 21,275,000 Union of South Afr	Panama		Panama		
Peru Republic Lima 683,321 5,800,000 Portugal Republic Lisbon 35,490 5,957,895 Portugal, Colonies of 802,952 9,245,000 802,952 9,245,000 Rournania Limited Monarchy Bukharest 53,489 7,568,000 Russia Absolute Monarchy Petrograd 8,417,118 178,378,800 Russia, Dependencies of San Salvador 7,225 1,225,835 Salvador 7,225 1,225,835 38 11,513 Serbia Limited Monarchy Belgrade 33,891 4,547,990 Slam Absolute Monarchy Bangkok 195,000 8,149,487 Spain Limited Monarchy Madrid 194,783 20,355,983 Spain Limited Monarchy Stockholm 171,963 5,680,500 Sweden Limited Monarchy Constantinople 710,000 21,275,000 Turkey & tributary states Limited Monarchy Constantinople 710,000 21,275,000 Union of South Afr	Percia	Timited Monarchy	Asuncion	196,000	800,000
Portugal	Peru	Republic	I ima	693 321	9,500,000
San Marino Republic San Marino 38 11,513 Serbia Limited Monarchy Belgrade 33,891 4,547,990 Siam Absolute Monarchy Bangkok 195,000 8,149,487 Spain Limited Monarchy Madrid 194,783 20,355,983 Spain, Colonies of 8,814 236,000 38,71 200 Switzerland Republic Brown 172,963 5,680,500 Switzerland Republic Brown 15,976 3877, 200 Turkey & tributary states Limited Monarchy Constantinople 710,000 21,275,000 United States, Continental Republic Washington 473,700 5,973,394 U. S., Dependencies of Washington 3,026,789 100,264,485 48 Uruguay Republic Montevideo 716,529 10,229,721 Uruguay Republic Montevideo 72,210 1,315,000 Veneruela Republic Caracas 393,976 2,764,244	Portugal	Republic	Lisbon	35 490	5 057 805
San Marino Republic San Marino 38 11,513 Serbia Limited Monarchy Belgrade 33,891 4,547,990 Siam Absolute Monarchy Bangkok 195,000 8,149,487 Spain Limited Monarchy Madrid 194,783 20,355,983 Spain, Colonies of 8,814 236,000 38,71 200 Switzerland Republic Brown 172,963 5,680,500 Switzerland Republic Brown 15,976 3877, 200 Turkey & tributary states Limited Monarchy Constantinople 710,000 21,275,000 United States, Continental Republic Washington 473,700 5,973,394 U. S., Dependencies of Washington 3,026,789 100,264,485 48 Uruguay Republic Montevideo 716,529 10,229,721 Uruguay Republic Montevideo 72,210 1,315,000 Veneruela Republic Caracas 393,976 2,764,244	Portugal, Colonies of			802,952	9,245,000
San Marino Republic San Marino 38 11,513 Serbia Limited Monarchy Belgrade 33,891 4,547,990 Siam Absolute Monarchy Bangkok 195,000 8,149,487 Spain Limited Monarchy Madrid 194,783 20,355,983 Spain, Colonies of 8,814 236,000 38,71 200 Switzerland Republic Brown 172,963 5,680,500 Switzerland Republic Brown 15,976 3877, 200 Turkey & tributary states Limited Monarchy Constantinople 710,000 21,275,000 United States, Continental Republic Washington 473,700 5,973,394 U. S., Dependencies of Washington 3,026,789 100,264,485 48 Uruguay Republic Montevideo 716,529 10,229,721 Uruguay Republic Montevideo 72,210 1,315,000 Veneruela Republic Caracas 393,976 2,764,244	Roumania	Limited Monarchy	Bukharest	53,489	7,508,000
San Marino Republic San Marino 38 11,513 Serbia Limited Monarchy Belgrade 33,891 4,547,990 Siam Absolute Monarchy Bangkok 195,000 8,149,487 Spain Limited Monarchy Madrid 194,783 20,355,983 Spain, Colonies of 8,814 236,000 23,55,983 Switzerland Republic Brown 172,963 5,680,500 Switzerland Republic Brown 15,976 3877, 200 Turkey & tributary states Limited Monarchy Constantinople 710,000 21,275,000 United States, Continental Republic Washington 473,700 5,973,394 U. S., Dependencies of Washington 3,026,789 100,264,485 Uruguay Republic Montevideo 716,529 10,229,721 Uruguay Republic Montevideo 72,210 1,315,000 Veneruela Republic Caracas 339,976 2,764,244	Russia Dependencies of	Absolute Monarchy	Petrograd	8,417,118	178,378,800
San Marino Republic San Marino 38 11,513 Serbia Limited Monarchy Belgrade 33,891 4,547,990 Siam Absolute Monarchy Bangkok 195,000 8,149,487 Spain Limited Monarchy Madrid 194,783 20,355,983 Spain, Colonies of 8,814 236,000 23,55,983 Switzerland Republic Brown 172,963 5,680,500 Switzerland Republic Brown 15,976 3877, 200 Turkey & tributary states Limited Monarchy Constantinople 710,000 21,275,000 United States, Continental Republic Washington 473,700 5,973,394 U. S., Dependencies of Washington 3,026,789 100,264,485 Uruguay Republic Montevideo 716,529 10,229,721 Uruguay Republic Montevideo 72,210 1,315,000 Veneruela Republic Caracas 339,976 2,764,244	Salvador	Republic	Son Solvedon	107,000	1,050,000
Absolute Monarchy	San Marino	Republic	San Marina	1,225	1,223,833
Absolute Monarchy	Serbia	Limited Monarchy	Belgrade	33.891	4.547.990
Swetzen Limited Monarchy Stockholm 85,814 230,000 Switzerland Republic Bern 172,963 5,680,500 Turkey & tributary states Limited Monarchy Constantinople 710,000 21,275,200 Union of South Africa Confederation Pretoria, Cape Town 473,700 5,973,394 United States, Continental Republic Washington 3,026,789 100,264,485 U. S., Dependencies of 716,529 10,229,721 712,210 715,529 Uruguay Republic Montevideo 72,210 1,315,000 Veneruela Republic Caracas 393,976 2,764,244	Siam	Absolute Monarchy	Bangkok	195,000	8,149,487
Swetzen Limited Monarchy Stockholm 85,814 230,000 Switzerland Republic Bern 172,963 5,680,500 Turkey & tributary states Limited Monarchy Constantinople 710,000 21,275,200 Union of South Africa Confederation Pretoria, Cape Town 473,700 5,973,394 United States, Continental Republic Washington 3,026,789 100,224,485 U. S., Dependencies of 716,529 10,229,721 712,210 1,315,000 Uruguay Republic Montevideo 72,210 1,315,000 Veneruela Republic Caracas 393,976 2,764,241	Spain Colonies of	Limited Monarchy	Madrid	194,783	20,355,983
U. S., Dependencies of	Cmadau		Stoolshalm	85,814	236,000
U. S., Dependencies of	Switzerland	Republic	l Bern	172,963	3,080,500
U. S., Dependencies of	Turkey & tributary states	Limited Monarchy	Constantinople	710.000	21,275,000
U. S., Dependencies of	Union of South Africa	_IConfederation	Pretoria, Cape Town	473,700	5,973,394
Uruguay Republic Montevideo 716,529 10,229,721 Venezuela Republic Garacas 333,976 2,764,241	United States, Continental	1 -	Washington	3,026,789	100,264,485
Caracas 393,9761 2.764.241	Uruguay	Republic	1	716,529	10,229,721
2 Jy3,y101 2,104.241	Venezuela	Republic	Caracas	72,210	1,315,000
	* Winter and Summer Capi			1 232,310	4,704,241

PRINCIPAL CITIES OF THE WORLD

Exclusive of the United States and Canada

	Protection of the Control of the Con			C 01111	Con Diates and Canada			
,	Aachen (Aix-la-Chanelle)		Ahmadnur India	11.000	Alfonoine Tholas (ann.)	10.074	A-11-1 - T 1	
1	Germany	156.143	Ahraura India	12,000	Alfortville France	17,804	Ankleshwar, India	10,225
	Aalborg, Denmark	33,449	Ahuachapan, Salvador	22,392	Alfreton England	10 046	Annandale N > W Auc	17,028
	Aalen, Germany	11,347	Aidin, Turkey in Asia	35,000	Algeciras, Spain	13.350	tralia .	11 250
	Aalesund, Norway	13,836	Aigun, Manchuria	15,000	Alghero, Italy, (com.)	11,265	Annecy, France	14.351
	Aalst (Alost), Belgium	35,125	Aikawa, Japan	12,500	Algiers, Algeria	172,397	Annen, Germany	13,690
	Aarhuus, Denmark.	61,755	Aintab, Turkey in Asia	74,000	Aliaga, Philippine Islands_	11,950	Annueld Plain, England	16,552
	Abbeekuta Nigeria	51 255	Airalli Turkov in Asia	24,388	Alicante, Spain	55,300	Annonay, France	17,300
	Abbeville France	20 704	Aiv France	20,000	Allemany Notherlands	64,825	Ans, Belgium	10,482
	Abbiategrasso, Italy,	20,101	Aix-la-Chapelle (Aachen)	29,029	(com)	21 084	Antanana rivo (Tanana	19,995
	(com.)	12,666	Germany	156.143	Allada, Dohomey	10.000	rivo). Madagascar*	70 000
	Abbottabad, India	10,175	Ajaccio, France	22,364	Allahabad, India	71,697	Antequera, Spain	32,215
	Aberavon, Wales	10,505	Ajmere (Ajmir), India	86,222	Allanmyo, India	10,207	Antibes, France	11,753
	Abercarn, England	16,445	Ajodhya, India	21,584	Allenstein, Germany	33,077	Antioch, Turkey in Asia	30,000
	Aberdare, Wales	50,830	Akalkot, India	10,000	Alloa, Scotland	11,893	Antioquia, Colombia	10,000
	Abergustian England	24 656	Akamagaseki (Shimono-	50 200	Almansa (in Albacete),	11 300	Antotagasta, Chile	34,000
	Abertillery England	35 415	Akachi Tanan	25 051	Almelo (Ambt-Almelo)	11,200	Antung Manchuria	20,000
	Abo Rusia	50 994	Akerman Russia	30 701	Netherlands (com)	10 465	Antwern Relainm	20,000
	Abomey, Dahomey	10.800	Akhaltsikh, Russia	16.116	Almendralejo, Spain	12.587	Anzin. France	14 387
	Abony, Hungary	13.604	Akhissar (in Smyrna), Tur-	10,110	Almeria, Spain	48,407	Aomori, (Awomori) Japan	47,206
	Abu Menaa Bahri, Egypt_	12,752	key in Asia	11,000	Almodóvar, Spain	12,525	Aonla, India	14,383
	Abu Menaa Qibli, Egypt	10,968	Akhmim, Egypt	23,795	Aloguinsán, Philippine Is-		Apálit, Philippine Islands	12,206
	Abu Tig, Egypt	12,024	Akhtyrka, Russia	31,728	lands	14,013	Aparri, Philippine Islands	18,252
	Accra (Akkra,) Gold Coast	19,588	Akita, Japan	36,294	Alora, Spain	10,326	Apeldoorn, Netherlands	25 (2)
	Accrington, England	45,029	Akka (Acre), Turkey in	11.000	Alor Star, Feudatory Ma-	12.000	(com.)	35,020
	Acerra, Italy	25 100	Allera (Accra) Gold Coast	12,000	Alost (Aalst) Balgium	35 125	Apolda Germany	22 610
	Achtkorenelen Nether-	33,100	Africa	19 588	Altamura Italy (com.)	25.534	Aquila degli Abruzzi	22,010
	lands (com)	12 839	Akmolinsk, Russia in	17,000	Altena, Germany	14.580	Italy, (com.)	21.923
	Acireale, Italy	36,147	Asia	11,000	Altenburg, Germany	39,976	Aquin, Haiti	20 000
	Acquaviva (Celle Fonti),	,	Akola, India	29,289	Altenessen, Germany	40,644	Aracaju, Brazil	30,000
	Italy	10,935	Akot, India	18,252	Altona, Germany1	72,628	Aracati, Brazil	27,126
	Acqui, Italy	15,232	Aksu, China	20,000	Altrincham, England	17,813	Arad, Hungary	63,166
	Acre (Akka), Turkey in		Akyab, India	35,680	Altwasser, Germany	17,324	Aragona, Italy, (com.)	15,514
	Asia	12,000	Alagoas, Brazil	15,320	Alwar, India	12 800	Araniusz Spain	12 670
	Acri, Italy	12,000	Alagoinnas, Brazil	20 831	Amalanuram India	11 000	Aranguir Turkey	20,000
	Acton, England	31,491	Alaminos Philippine Is-	29,001	Amalner India	12,000	Arappukutai, India	12.673
	Acia Bazar, Turkey III	15 000	lands	10.338	Amasia, Turkey in Asia	35,000	Arayat, Philippine Islands	12,904
	Adafudia, Dahomey	24,000	Alasher (Ala Sher), Turkey		Amatitlan, Guatemala	10,000	Arbon, Switzerland	10,299
	Adalia (Attalia), Turkey	1	in Asia	21,000	Amba, India	13,500	Arbroath, Scotland	20,648
	in Asia	30,000	Alatchata, Turkey	14,000	Ambala (Umbala), India	80,131	Arcevia, Italy	11,742
	Adana, Turkey in Asia	60,000	Alatri, Italy, (com.)	15,546	Ambasamudram, India	14,000	Archanaie (Arcanaye),	16.000
	Addis Abeba, Abyssinia*	50,000	Alatyr, Russia	14,500	Ambara Carmani	25 242	Archangel Russia	37 000
	Adeisat, Egypt	10,026	Alba, Italy, (com.)	24 805	Amberg, Germany	25,442	Arcola (Arcole) Italy.	31,770
4	Adelaide, Australia	42,294	Alban Dhilippine Islands	14 040	Netherlands (com.)	10,465	(com.)	10,546
4	sucialde, Australia (with	91 312	Albi France	23.303	Ambur, India	17,000	Arcot, India	10,734
	Aden Archic	46.165	Albona, Austria	12,000	Amersfoort, Netherlands,		Ardabil (Ardebil), Persia	16,000
	Adernò Italy	30,096	Alcalá de Henares, Spain	11,216	(com.)	23,620	Arendal, Norway	10,294
	Adirampatnam, India	11,500	Alcala la Real, Spain	15,980	Amiens, France	93,207	Arequipa, Peru	40,000
	Adlershof, Germany	10,645	Alcamo, Italy, (com.)	31,675	Amoy, China	24 216	Argao Philippine Islands	35 448
	Adoni, India	30,416	Alcantara, Brazil	10,000	Amraoti, India	17 977	Argenta Italy (com)	22,260
ı	Adra, Spain	11,188	Alcagar Morocco	18 000	Amritsar, India	52,756	Argenteuil, France	24,282
	adramyti (Edremid), Tur-	14 000	Alcazar de San Iuan	20,000	Amroha, India	40,077	Argyro-Kastro, Albania	18,000
	Adria Italy	17.562	Spain	11,499	Amsterdam, Netherlands,		Ariano di Puglia, Italy,	45 500
	Adrianople, Turkey	83,000	Alci a, Spain	22,657	(com.)	66,131	(com.)	17,708
	Affori, Italy, (com.)	16,370	Alcoy, Spain	3 , 383	Anakapalle, India	18,539	Arles, France	31,010
ľ	Afiun Karahissar, Turkey		Aldershot, England	35,175	Anand, India	11,500	Arion, (Aarien) Beigium	11 600
ľ	in Asia	45,000	Alemquer, Brazil	10,000	Ananyet, Kussia	63 535	Armentieres Erance	28 613
1	Afragola, Italy, (com.)	22,822	Alencon, France	24.019	Ancona, Italy, (Com.)	64 137	Arnhem Netherlands.	210,020
4	Agamain, Egypt	14,052	Aleppey (Aleppi), India	000 000	Anderlues Belgium	10.321	(com.)	64,019
4	lgar, India	11,000	Alepho, Turkey in Asia2	12.300	Andijan. Russia in Asia	76,36/	Arni, India	12,485
4	Igartala, India	23 141	Alessandria Italy (com.)	75.721	Andkhui, Afghanistan	15,000	Arnold, England	11,146
4	Agen, France	21 877	Alexandretta, Turkey in	,	Andorra, Andorra*	600	Arnsberg, Germany	10,247
	Agoó Philinnine Islands	10,653	Asia	12,000	Andria, Italy, (com.)	53,284	Arnstadt, Germany	17,841
	Agra, India1	85,449	Alexandria, Egypt3	32,246	Andújar, Spain	10,302	Arning Italy (com)	10 164
	Agram (Zágráb), Hungary	79,038	Alexandria, Roumania	14,785	Angeles, Philippine Islands.	83 786	Arrah India	46,170
	Aguadas, Colombia	26,423	Alexandria, Russia	15,000	Angers, France	10.953	Arras France	24,921
1	Aguascalientes, Mexico	45,198	Alexandro ol, Russia	13 400	Augora Turkey in Asia	38,000	Arvi, India	10,676
	Aguilar, Spain	13,236	Alexandrov, Kussia	13,200	Angoulême, France	38,211	Arzamas, Russia	11,000
	Iguilas, Spain	13,950	Duscia	45.536	Angra (Azores), Portugal,	10,857	Arzignano, Italy, (com.)	10,953
1	agyrocastro, Albania	10 762	Alexandrovsk (in Ekateri-	,,,,,,	Angri, Italy, (com.)	11,606	Asahigawa, Japan	40,453
	Ahmadahad India	15 8351	noslaf), Russia	50,873	Anjar, India	18,014	Asansol, India	14,906
	Ahmadagar, India	42,500	Alexeyevka, Russia	14,268	Alfonsine, Italy, (com.) Alfortville, France Alfreton, England Algectras, Spain Alghero, Italy, (com.) Algiers, Algeria Allagar, Pi.lippine Islands Alicante, Spain Aligarh (Koil), India Alicante, Spain Aligarh (Koil), India Alicante, Spain Aligarh (Koil), India Alicante, Spain Alida, Dohomey Alida, Dohomey Allada, Dohomey Allada, Johomey Allada, Com.) Allada, Com. Allanamyo, India Allantein, Germany Alloa, Scotland Allantein, Germany Almansa (in Albacete), Spain Almedoloa, Spain Almedoloa, Spain Almedoloar, Spain Almedoloar, Spain Alor, Spain Altena, Germany Altena, Germany Altena, Germany Altena, Germany Altena, Germany Altona, Germany Amasan, India Ambato, Ecuador Ambur, India Ambato, Ecuador Ambur, India Ambato, Ecuador Amber, India Ambato, Com.) Andorica, Italy, (com.) Andorica, Ressia Andoria, Italy, (com.) Andorica, Ressia Angele, Philippine Islands Angers, France Angeur, Belgium Andoria, Italy, (com.) Angeles, Philippine Islands Angers, France Angeur, Belgium Angora, Turkey in Asia Angora, Philippine Islands Angers, France Angora, Philippine Islands Angers, France Angora, Philippine Islands Angers, Philippi	15,2791	Ascn, Austria	21,000

7.44		FRINCIPAL CI	THIS OF THE	- TOREID		1	
Aschaffenburg, Germany_	29,892	Azuaga, Spain 14,1	22 Banbury, Eng	gland	13,460	Battonya, Hungary	. 12,872
Aschersleben, Germany	28,964	Bacarra, Philippine Is-	Banda, India		22,565	Bauan Philippine Islands	30 004
Ashfield N.S.W. Australia	12.096	Baccacay, Philippine Is-	Bangalore. (B	angalur) In-	22,010	Báuang, Philippine Islands	s 10,032
Ashford, England	13,668	lands14,2	14 dia		189,485	Bautzen, Germany	32,754
Ashikaga, Japan	38,908	Bachmut (Bakhmut), Rus-	Bangkok, Siar	m*	628,675	Baxar (Buxar), India	. 13,945
Ashington, England	24,583	Recolod Philippine Is-	Bangued. Ph	s	11,230	lands	11.098
Ashmun, Egypt	13,900	lands	lands		12,956	Baybay, Philippine Is-	
Ashta, India	12,409	Bacolor, Philippine Is-	Banjaluka (Ba	ania Louka),	44.000	lands	22,990
Ashton-in-Makerneld,	21 543	Racón Philippine Islands 14 5	36 Baniermassin	South and	14,000	Bayreuth (Raireuth), Ger-	20,488
Ashton-under-Lyne, Eng-	21,010	Bacoor, Philippine Islands 10,9	25 East Borne	0*	50,000	many	34,547
land	45,172	Bács-Topolya, Hungary 12,0	29 Bankura, Indi	ia	20,737	Baza, Spain	12,770
lands	12.911	Badagara, India 11.3	19 Bansdih, India	a	10,024	garia	18.098
Askhabad, Russia in Asia.	57,057	Badajoz, Spain 35,0	Bant, German	ıy	24,814	Beaconsfield, O.F.S., Union	1
Asmara, Erythrea*	00,000	Badalona, Spain 19,2	10 Bantayán, Ph	hilippine ls-	13 324	of South Africa	20,364
Assen Netherlands (com.)	12,926	Baden, Germany 22.0	66 Bar. Russia		13,434	Beauvais, France	20.248
Assisi, Italy, (com.)	18.482	Badián, Philippine Islands 10,9	35 Baranagar, In	dia	25,432	Beba, Egypt	10,156
Assiut (Siut), Egypt	39,442	Badnera, India	59 Barberino d	li Mugello,	11 707	Beckenham, England	31,692
Asti. Italy. (com.)	39,693	Badvel, India 10.8	Barcellona Po	zzo di Gotto.	11,171	garv	18.865
Aston Manor, England	75,029	Baena, Spain 14,5	Italy, (com.)	25,439	Bedford, England	39,183
Astrabad, Persia	28,000 50,100	Bagagem Brazil	11 Barcelona, Spa	ain	13,000	Bedlington, England	25,440
Asturias, Philippine Is-	-0,100	Bagalkot, India 19,0	Bareil (Bareill)	y), India	131,208	Beeston, England	11,336
lands	12,153	Bagdad, Turkey in Asia225,0	00 Barfrush (Bal	lirush), Per-	55 000	Bègles, France	12,588
Aswan (Assouan), Egypt	12,618	Bagheria, Italy, (com.) 20.9	Barh, India		12,164	Beirut, Turkey in Asia	210,000
Ath, Belgium	11,108	Bagnacavallo, Italy, (com.) 15,6	9 Barhaj, India		10,054	Beja, Portugal	10,113
Atherton England	18 082	Bagnara, Italy, (com.) 10,4	8 Bari del Pu	iglie, Italy,	103 670	Békés, Hungary	26,875
Athni. India	11,107	(com.) 12.8	1 Barili, Philipp	ine Islands_	31,617	Bèkès-Csaba (Csaba),	42 500
Atimonam, Philippine Is-		Bagni San Giuliano, Italy,	Barisal, India.		18,978	Belem (Para), Brazil	250,000
Atiquizava Salvador	11,203	Ramo a Pipoli Italy	9 Barking Town	, England	31,294	Belfast, Ireland	385,492
Atkarsk, Russia	12,600	(com.) 17,7	8 Barletta, Italy	, (com.)	44,301	Belgam (Belgaum) India	39,371 26,878
Atrauli, India	16,561	Bagnolet, France 11,7	O Barmen, Germ	nany	169,214	Belgrade, Servia*	90,895
Atri, Italy, (com.)	24.941	Bahawalpur, India 18.5	6 Barnagar, Ind	ia in Asia	61.330	Belize, British Honduras*	10,478
Attalia (Adalia), Turkey		Bahgura, Egypt 11,0	0 Barnes, Englan	nd	30,377	Bellinzona, Switzerland	10.406
in Asia	30,000	Bahia, Brazil280,0	0 Barnet, Englan	nd	10,440	Bello Horizonte, Brazil	25,000
Atzgersdorf, Austria	10,375	Bahraich, India 27,30	4 Barnstaple, En	ngland	14,485	Belluno, Italy, (com.)	20,687
Aubervilliers, France	37,558	Baiadia, Egypt 15,9	7 Baroach (Broa	ich), India	42,896	Belper, England	11,640
Auchel. France	11,075	Bailleul France 13.5	4 Baroda, India.	Venezuela	28 000	Belqas, Egypt	25,473
Auckland, New Zealand	40,536	Baindir, Turkey in Asia 25,50	O Barra, Italy, (c	com.)	13,037	Bencoolen (Benkulan)	209,331
Auckland, New Zealand,	02 676	Bainet, Haiti 20,00	O Barracas al S	Sud, Argen-	12.000	Sumatra	12,500
Audley, England	14,776	many 34.5	Barrackpore, I	India	31,907	Bendery (Bender), Russia	59,800
Aue, Germany	19,363	Baja, Hungary 21,0	2 Barrafranca, I	Italy, (com.)	11,784	Benevento Italy (com)	17,883
Germany,	12 721	Baj-Baj (Budge-Budge),	Barranquilla, C	Colombia	48,907	Benghazi (Bengazi), Tri-	24,174
Augsburg, Germany1	02,487	Bajistan, Persia14,00	0 Barros, Porto	Rico	14,845	poli	21,000
Augusta, Italy, (com.)	14,866	Bajitpur, Eastern Bengal	Barrow-in-Fur	rness, Eng-	62 880	Beni Suef and Neglet	15,182
Aurangabad, India	36,837	Bakau, Roumania 17.0	2 Barry, Wales	**********	33,763	Qadi, Egypt	23,357
Aurillac, France	17,772	Bakhmut (Bachmut),	Barsi, India		24,242	Benkulen (Bencoolen),	
Auschwitz, Austria	30 301	Russia 33,2	O Bartin, Turkey	y in Asia	15,000	Benoni Transucal Hain	12,500
Autlán, Mexico	10,308	Baku, Russia 206.0.	Basel (Bâle).	Switzerland	132,267	of South Africa	32,560
Autun, France	15,479	Balambán, Philippine Is-	Basey, Philipp	ine Islands_	13,504	Benrath, Germany	20,444
Auxerre, France	20,931	Balanur India	Basim, India	England	13,823	Berst Albania	12,481
Aveiro, Portugal	11,523	Balashof, Russia 22,8	00 Basirhat, Indi	a	17,001	Beraun Austria	11,536
Avellino, Italy, (com.)	24,070	Balasore, India 20,8	Basra (Bassor	ah), Turkey	20.000	Berber, Anglo-Egyptian	4.5.00
Avezzano, Italy, (com.)	11,208	England 11.5	O Bassano, Italy	v.(com.)	17,161	Berbera British Someli-	15,000
Avigliano, Italy, (com.)	16,937	Bâle (Basel), Switzerland 132,2	67 Bassein (in Bo	mbay),India	10,702	land*	30,000
Avignon, France	49,304	Balfrush (Barfrush), Per-	Bassein (in Bu	ırma), India.	31,864	Berchem, Belgium	30,274
Aviles, Spain	12,763	Balikesri, Turkey in Asia 14.0	00 Basti, India	L	14.761	Berditchef, Russia	35,658
Avola, Italy, (com.)	17,300	Balinag, Philippine Islands 15,9	6 Bastia, France	e	27,338	Beregszász, Hungary	12,933
Awomori (Aomori), Japan	47,206	Ballarat, Australia 38,6	86 Batac, Philipp	oine Islands_	19,524	Bergama (Pergamos), Tur	- 0.5
Aylesbury, England	11,048	Bally, India 18.6	2 Batán Philipp	oine Islande	14 315	Bergamo, Italy (com.)	25,000
Ayr, Scotland	32,985	Ballymena, Ireland 11,3	6 Batangas, Ph	ailippine Is-	22,010	Bergedorf (near Hamburg)	, 33,713
Ayuthia, Siam	50,000	Balmain, Australia 31,9	l lands		33,131	Germany	14,907
Azemour, Morocco	11,000	Balrampur, India 16.7	Batavia, Egy	Pt	14,961	Bergen on Zoom Nether	76,917
Azimganj, India	13,385	Balta, Russia 27,6	00 Bath, England	1	50,721	lands, (com.)	15,582
Azor, Russia	30,525	Azuaga, Spain	3 Batley, Englar	nd	36,389	Bergerac, France	15,632

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Bergisch-Gladbach, Ger-		Bingerville, French Ivory	Borgo San Lorenzo, Italy,		ln
many	15,207	Bingerville, French Ivory Coast*	(com)	15.062	Broussa (Brusa), Turkey
Berhanpur, India	32,252	Bingley, England 18.75	Borisogliebsk Russia	24 700	Promisile Feeten 90,00
Beri, India	11,603	Binh Thuan, French Indo-	Borissof, Russia	18 103	Broggi Italy (app.)
Berislav, Russia	11,093	China 20.00	Borissovka, Russia	16 288	Brusy France
Berlat (Berlad), Rouma-		Binmaley, Philippine Is-	Borongan, Philippine Is-	10,200	Bruchsal Germany
Parlie C.	25,381	lands 16,43	lands	13 667	Bruges Relgium 52 20
Berlin, Germany*2,	071,257	Birjand, Persia 25,00	Borovitchi, Russia	10.300	Briinn, Austria
Bernin, Germany", (With		Birkdale, England 18,00	Borrowstounness, (Bo'-	,	Brunswick, Australia 32 20
Power (Power) Comits	709,504	Birkenhead, England 130,79	ness), Scotland	10,866	Brunswick (Braunschweig)
Bombuss Committee Committee	85,651	Birmingham, England 525,83.	Borsad, India	13,001	Germany 143 55
Bernburg, Germany	33,724	Bisceglie, Italy, (com.) 33,92	Boryslaw, Austria	12,757	Brusa (Broussa), Turkey
Berwick upon Tweed, Eng-		Bishnupur, India 19,09	Boscoreale, Italy, (com.)	10,189	in Asia90.00
Danie	13,075	Bishop Auckland, England 13,83	Boscotrecase, Italy, (com.)	11,307	Brussels, Belgium*177.07
Besancon, France	57,978	Biskupitz, Germany 13,96	Bosna-Serai (Sarajevo),		Brussels (with suburbs).
Bethlehem, Turkey in Asia	11,000	Dismarcknutte, Germany_ 22,68	Austria-Hungary	51,919	Belgium*720,34
Pottin India	13,607	Distritz, Hungary 13,23	Boston, England	16,673	Brüx, Austria 25,69
Dettia, India	24,090	Ditorto Italy (ann.)	Botany, Australia	10,228	Brzczany, Austria 12,70
Beutnen (in Prussian Si-	c= =	Bitterfeld Cormony 14.61	Botosnani, (Botuchany),	20.042	Bucaramanga, Colombia 20,00
Parana Balai	67,718	Bizerta Tunia	Roumania	32,813	Buckhaven, Scotland 15,14
Beveren, Belgium	11,020	Bielgrad (Rolgrad) Pus	Potuchows (D-task-si)	47,102	Buczacz, Austria 14,30
Beverley, England	15,054	sia (noigrad), Rus-	Poumonia (Botosnani),	22 012	Budapest, Hungary*880,37
Baylow England	15,330	Riordehorg Russia 18 000	Rotgen Austria	24 126	Budaun, India 39,03
Béziers France	51.040	Blackburn, England 133.05	Boulder Australia	12 833	India (Daj-Daj),
Bezwada India	24 224	Blackpool, England 58 37	Boulogne (in Pasade	22,000	Rudrio Italy (com)
Bhadrakh India	18 519	Blaenavon, England 12.010	Calais). France	53.128	Budweis Austria 45 20
Bhadreswar, India	15 150	Blagovestchensk . Russia in	Boulogne (in Seine), France	57,027	Buea. Kamerun*
Bhagalpur, India	75 760	Asia 70.160	Bourg, France	20,045	Buenos Aires, Argentina * 1 560 16
Bhamo, India	10,734	China 20,00 Binmaley, Philippine Islands 16,43 Birjand, Persia 25,00 Birkdale, England 18,00 Birkchead, England 130,79 Birmingham, England 525,83 Bisceglie, Italy, (com.) 33,92 Bishnupur, India 19,09 Bishop Auckland, England 13,83 Biskupitz, Germany 13,96 Bismarckhütte, Germany 22,68 Bistritz, Hungary 13,23 Bitlis, Turkey in Asia 40,00 Bitonto, Italy, (com.) 32,82 Bitlis, Turkey in Asia 40,00 Bitonto, Italy, (com.) 32,82 Bitlis, Turkey in Asia 40,00 Bitonto, Italy, (com.) 32,82 Bitlis, Turkey in Asia 40,00 Bitonto, Italy, (com.) 32,82 Bitlis, Turkey in Asia 40,00 Bitonto, Italy, (com.) 32,82 Bitlis, Turkey in Asia 40,00 Bitonto, Italy, (com.) 32,82 Bitlis, Tance 12,38 Blockepool, England 133,05 Blackpool, England 133,05 Blackpool, England 12,016 Blagovestchensk, Russia in Asia 70,166 Blankenburg (in Brunswick), Germany 11,481 Blydon, England 31,133 Blidah, Algeria 35,461 Bloem fontein, O. F. S., Union of South Africa 33,82 Blois, France 23,972 Blumenthal (in Hanover), Germany 10,874 Blyth Fingland 28,286	Bourgas (Burghas), Bul-	-,	Buer, Germany 61 51
Bhandara, India	14,023	wick), Germany 11.487	garia	14,897	Buga, Colombia 12 40
Bharatpur, India	43,601	Blaydon, England 31,139	Bourges, France	45,735	Bugasón, Philippine Is-
Phomosh (Decemb) India	42.896	Blidah, Algeria 35,461	Bournemouth, England	78,674	lands 11.10
Bhatgaon, Nepal	30,000	Bloemfontein, O. F. S.,	Boussu, Belgium	11,573	Buguruslan, Russia 21.000
Bhatinda, India	13,185	Union of South Africa 33,882	Bra, Italy, (com.)	16,957	Buitenzorg, Java 33,40
Bhatinda, India Bhatpara, India	21,540	Blois, France 23,972	Brackwede, Germany	10,550	Bujalance, Spain 10,750
Khaunagar India	56,442	Blumenthal (in Hanover),	Bradford, England2	88,458	Bukharest, Roumania*338,10
Bhera, India	18,680	Germany 10,874	Braga, Portugal	30,436	Bulacán, Philippine Is-
Bhilwara, India	10,346	Germany 10,874	Bragança, Brazil	15,000	lands 11,589
Bhir, India	17,671	Boac, Philippine Islands 15,823	Brahmanbaria, India	19,915	Bulan, Philippine Islands_ 13,43
Bhiwandi, India	10,354	Bobbili, India 17,387	Bralia, Koumania	04,730	Bulandshahr, India 18,959
Bhiwani, India	35,917	Bobrinetz, Russia 10,680	Brandenburg, Germany	53,595	Bulhar, Somaliland 12,500
Bhopal, India	77,023	Bobrusk, Russia 40,842	Brandon and Bysnottles,	17 CC7	Bulsar, India
Bhuj, India	26,362	Bochnia, Austria 12,000	Proces (Vennetode) Hun	17,007	Bungley Cormony 16 131
Bhusawal, India	16,363	Bocholt, Germany 20,404	Brasso (Kronstagt), hun-	68 200	Burayan Philipping To
Biala, Egypt	12,376	Bochum, Germany 20,409 Bochum, Germany 136,931 Böckingen, Germany 10,441 Bodenbach, Austria 13,412 Bodinayakkanur, India 22,205 Boduno (Petuna), Man-	Draunchorg Commany	13 601	lande 19 10'
Bialystok (Byelstok, Biel-		Rodenbach Austria 12/11	Braunschweig (Rruns-	13,001	lands 18,19; Burdur, Turkey in Asia 17,290
ostok), Russia	86,200	Rodinavakkanur India 22 200	wick) Germany 1	43 552	Burdwan, India 35,022
Biancavilla, Italy, (com.)_	15,743	Roduno (Petuna) Man-	Brazzaville, French Equa-	10,002	Burg (on the Ihle), Ger-
Biarritz, France	15,093	churia 29.500	torial Africa*	00.000	many 24.074
Bickendorf, Germany	11,863	Bofu, Japan 23,916	Breda, Netherlands, (com.)	27,389	Burghas (Bourgas), Bul-
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Bidar, India	11,307	Bogodukhof, Russia 11,525	Bremerhaven, Germany	24,165	Burgos, Spain 31,489
Biebrich, Germany	21,199	Bogorodsk (in Moscow).	Brentford, England	16,571	Burhanpur, India 33,341
Biel, (Bienne), Switzer-		Russia14,200	Brescia, Italy, (com.)	83,339	Burnley, England106,322
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Bielef, Russia	10,700	Bogutschütz, Germany 22,922	Bressoux, Belgium	11,959	Burslem, England 38,766
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Droylsden, England	-3 2,3/3/3 -2 4,877 -2 8,052 -2 1,901 -1 5,529 -3 0,000 -1 16,228 -3 8,000 -1 18,208 Is- -1 2,542 -1 16,537 -1 12,542 -1 12,542 -	Felamitz, Spain Feligy, Feligy, Agna, Felling, England Feltre, Italy, (com.) Feng-hwang-cheng, Man- churia. Fernetino, Italy, (com.) Fermo, Italy, (com.) Ferrozepore (Firozpur), India Ferrara, Italy, (com.) Ferrol, Spain Feshn Town, Egypt Feuerbach, Germany Fez, Moroco* Filamarantsoa, Madagascar Fidamin, Egypt Fiesole, Italy, (com.) Figline Valdarno, Italy, (com.) Figuia, Spain Figuia, Figing, Morocco Finale nell' Emilia, Italy, (com.) Finelley, England Finsterwalde, Germany Firenznola, Italy, (com.) Firminy, France Firozabad, India Firozpur (Ferozepore), India Fischern, Austria	34,924 25,026 12,928 22,570 49,341 11,364 20,000 27,000 11,364 12,035 10,714 20,000 13,422 11,364 11,000 13,422 11,000 13,422 11,000 13,422 11,000 11	many Frascati, Italy, (com.) Frascati, Italy, (com.) Frascation, Scotland Frattamaggiore, Italy Fray Bentos, Uruguay Fredericia, Denmark Frederichsberg, Denmark Frederiksbald, Norway Frederikstad, Norway Frederikstad, Norway Freetown, Sierra Leone* Freiberg, Germany Freiburg (in Baden), Germany Freiburg, Germany Freising, Germany Frieden, Germany Friederichsfüle, Germany Friederichsfüle Friederic	68,277 10,577 10,577 13,720 15,000 14,228 97,237 12,046 15,624 37,724 36,237 83,324 14,946 19,830 20,293 34,862 12,496 113,119 14,924 13,673 10,901 11,646 14,515 624,000 12,200 50,396 82,106 33,493

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Fulda, Germany	22,487	Giaveno, Italy, (com.).	10.502	Grado Spain (com)	17 215	Guiljugan, Philippine Islands 10,447 Guinobatan, Philippine Islands 10,447 Guinobatan, Philippine Islands 20,027 Guiuan, Philippine Islands 11,594 Guirat, India 29,224 Guirat, India 19,410 Gulbarga, India 29,228 Guledgarh, India 16,786 Gumbinnen, Germany 16,786 Gumbinnen, Germany 16,044 Gümürina, Turkey 18,000 Guna (Goona), India 11,452 Guntur, India 30,833 Gurun, Turkey in Asia 12,500 Güstrsloh, Germany 18,336 Gütersloh, Germany 18,336 Gwalior (Lashkar), India 119,433 Gympie, Australia 11,718 Gyöngyös, Hungary 11,545 Gyöngyös, Hungary 18,314
Funchal (Madeira), Por-		Gibraltar, Gibraltar	25,367	Gragnano Italy (com)	14 643	lands 44.44
tugal	21.570	Giessen, Germany	31 153	Grahamstown C of G H	14,042	Cuindulman Dhiling
Fünfkirchen (Pécs), Hun-	,_,	Gifu Japan	41 488	Union of South Africa	12 002	Guindulman, Philippine
gary .	40 822	Giión Spain	55 000	Grammichala Italia (13,003	Islands 10,447
Fürstenwalde (in Branden-	. 4.7,022	Gilan (Llan) Formosa	33,000	Gramment Polaises	17,403	Guinopatan, Philippine Is-
burg) Germany	22 626	Tanan (Liair), Formosa,	15 002	Grammont, Beigium	12,019	lands 20,027
Firth (in Bayaria) Car	22,020	Cillingham (in Vant)	13,003	Gran, Hungary	17,881	Guiuan, Philippine Islands 11,594
Furth (in Davaria), Ger-	***	Gillingham (in Kent),	FO 055	Granada, Nicaragua	17,100	Gujranwala, India 29,224
many	00,553	England	52,252	Granada, Spain	80,511	Gujrat, India 19.410
Fusan (Fousan), Chosen		Gilly, Belgium	24,211	Grand' Combe, France	11,292	Gulbarga, India 29 228
(Korea)	41,081	Ginatilan, Philippine Is-		Grand Gosier, Haiti.(com.)	12,000	Guledgarh India 16 786
Fushima, Japan	24,883	lands.	10.617	Grantham England	20,070	Gumbinnen Germany 14 540
Fyzabad (Faizabad), India	75.085	Ginosa, Italy, (com.)	10.923	Granville France	11 040	Cummarchach Commany 16 044
Gabes, Tunis	16,000	Giojosa, Jonica, Italy	,	Graelitz Austria	14,000	Cimining Turkers
Gablonz Austria	20,521	(com)	10.043	Crasso France	20 205	Gumurjina, Turkey 18,000
Godor India	20,652	Cinin July College Teel	10,743	Crasse, Plance	20,303	Guna (Goona), India 11,452
Cadaal Tadia	30,032	Gioja dai Colle, Italy,		Graiz (Graz), Austria	51,/81	Guntur, India 30,833
Gadwai, india	10,195	(com.)	21,837	Graudenz, Germany	40,325	Gurun, Turkey in Asia 12,500
Gane (Gene), Sweden	35,838	Giovinazzo, Italy, (com.)	10,727	Gravenhage (The Hague),		Güstrow, Germany 17,805
Gaia (Villa Nova le Gaya),		Girgeh (Girga), Egypt	19,893	Netherlands*	[71,250]	Gütersloh, Germany 18.336
Portugal	14,700	Girgenti, Italy (com.)	26,823	Gravesend, England	28,118	Gwalior (Lashkar), India_119.433
Gainsborough, England	_20,587	Gitschin, Austria	10,400	Graville-Sainte-Honorine.		Gympie, Australia 11.718
Gaissin, Russia	11,800	Gingliano, Italy (com.)	15 963	France	13.273	Gyoma, Hungary 11 545
Galashiels, Scotland	14.531	Giurgevo Roumania	20,893	Gravina in Puglia, Italy,	,	Gyöngyös Hungary 18 314
Galata Turkey	16,700	Givers France	12 306	(com)	19 900	Györ (Raah) Hungary 44 300
Galatina Italy (com.)	15,400	Gizeh (Giza) Faret	16 497	Grave Thurrock England	15 008	Gynla Hungary 24 304
Galatz Poumania	71 710	Cladbook (Porgisch) Con	10,207	Graz (Gratz) Austria	51 781	Haarlam Notherlands
Coloone Marie	12 547	Gladbach (Bergisch), Ger-	15 005	Greet Crochy Freder	12 272	(ann) Netherlands,
Callanda, Mexico	15,047	many	15,207	Creat Crissby, England.	12,213	(Cont.) 59,410
Gallarate, Italy, (com.)	13,508	Giaddach (Munchen),		Great Grimsby (Grimbsy),	MACKE	maariemmermeer, Neth-
Galle (Point de Galla),	10.10	Germany	06,414	England	14,059	eriands, (com.) 19,440
Ceylon	40,187	Gladbeck, Germany	39,171	Freat Harwood, England	13,815	Hachinohe, Japan 10,650
Gallipoli, Italy, (com.)	11,427	Glasgow, Scotland7	84,455	Great Yarmouth, (Yar-		Hachioji, Japan 27,550
Gallipoli, Turkey	25,000	Glatz, Germany	17,121	mouth), England	55,905	Hadersleben, Germany 13.046
Galluzzo, Italy, (com.)	20,193	Glauchau, Germany	25,155	Greco Milanese, Italy,		Hagen, Germany 88,608
Galway, Ireland	13,240	Glebe Australia	21,444	(com.)	19,275	Hagenau, Germany 18 865
Cond (Chont) Relainm	166 445	Claimita Cormony	66 081	Greenock Scotland	75 140	Hagonov Philipping Is.
Cándara Dhilinnina Is	100,120	Gleiwitz, Germany.	24 524	Greifewald Germany	24 670	lands 21 204
Gandara, Philippine 15-	12.014	Glogau, Germany	21 600	Greiz Carmany	23 245	Harris The (Cravenhare)
lands	12,014	Glossop, England	21,000	Cumpble France	77 129	*Notherlands (come) 271 200
Gandia, Spain	10,020	Gloucester, England	50,035	Grenoble, France	11,400	"Netherlands, (com.)2/1,280
Gangi, Italy, (com.)	10,397	Glukhof, Russia	14,856	Greve, Italy, (com.)	14,241	Haidarabad (Hyderabad)
Gangoh, India	12,974	Gmünd (in Württemberg)		Griesheim on Main, Ger-		(in Haiderabad), India_500,623
Gap. France	10,820	Germany	21,312	many	11,514	Haidarabad (in Sind),
Gapán, Philippine Islands	11,275	Gnesen, Germany	25,339	Grimma, Germany	11,440	India 69,378
Gardaia Algeria	28,809	Goa (Nova Goa, Paniim).		Grimsby (Great Grimsby),		Haifa (Caiffa), Turkey in
Garden Reach India	42,293	Portuguese India	10.000	England	74,659	Asia 25,000
Catchina Puccia	15,001	Goave Haiti (com)	16 000	Grivegnée, Belgium	11,927	Haiphong (Haifong).
Catashand England	116 013	Coch Carmany	11 128	Grodek Austria	13,400	French Indo-China 30,000
Gatesnead, England	14 248	Cadashara Cormony	15 810	Grodno Russia	66,500	Hai Svöng Chosen
Gaunati, India	14,240	Godesberg, Germany	20,010	Cronau Carmany	10.082	(Vores) 27 646
Gaya, india	11,280	Godnra, India	40,915	Camingon Motherlands	10,002	TV (16 Dy - v - c - TT-
Gaza, Turkey in Asia	40,000	Göding, Austria	12,200	Groningen, Netherlands,	74 613	Hajdu-Boszormeny, Hun-
Gebweiler, Germany	13,024	Gokak, India	10,000	(com.)	73,000	gary 28,159
Geelong, Australia	21,630	Golcar, England	10,110	Gros Morne, Haiti, (com.)	12 440	Hajdu-Nanas, Hungary 10,/81
Geestemünde, Germany	25,102	Gollnow, Germany	10,259	Grosseto, Italy, (com.)	14,444	Hajdú-Szoboszló, Hun-
Gefle (Gäfle.) Sweden	35,838	Gomel, Russia	97,868	Grosswardein	64 460	gary 16,093
Geheina Egypt	20,244	Gonaives, Haiti	13,000	Várad), Hungary	04,109	Hajipur, India 21,398
Geili Anglo-Egyptian		Gonda, India	15,811.	Groszenhain, Germany	12,217	Hakodate, Japan 87.875
Sudan	20,367	Gondal, India	19,592	Grottaglie, Italy, (com.)_	11,851	Hal, Belgium 14,789
Colligaer Wales	35 521	Goole England.	20,332	Grotte, Italy, (com.)	10,148	Holos (Kickunhalas) Hun
Coleonkirchen Cormoni	160 513	Goong (Guna) India	11,452	Grumo Appulo, Italy,		gary 24 291
Calculations Commons	18 019	Cöppingen Germany	22 373	(com.)	10,272	Holbaratadt Cormony 46 491
Gerveisberg, Germany	10,930	Corekhour India	64 149	Griinberg, Germany	23,168	ITalifan England 104 552
Geneva, Switzerland (city	50 227	Cori Puccia	12 000	Guadalajara, Mexico	19,468	ITaliankan India
proper)	30,337	Caringham Notherlands	£2,000	Guadalajara, Spain	10,944	mansanar, india 10,149
Geneva, Switzerland,		Gorinchem, Netherlands,	12 200	Guadalune Hidalgo Mex-		Halle (on the Saale), Ger-
(com.)	135,415	(com.)	20,000	ico	18,344	many180,843
Gennevilliers, France	11,586	Gorizia (Gorz), Austria	95,995	Guadiy Spain	12,652	Halluin, France 16,158
Genoa, Italy, (com.)	272,221	Görlitz, Germany	85,806	Cuama Philipping Islands	11 028	Halmstad, Sweden 18,332
Gentbrugge, Belgium	13,724	Görz (Goritz), Austria	30,995	Guagua, Finnippine Islands	11,020	Halsinghorg (Helsinghorg).
Georgetown, British		Gosforth, England	15,490	Gualdo Ladino, Italy,	10.449	Sweden 33 863
Guiana*	54,981	Goslar, Germany	18,909	(com.)	15,948	Halver Cermany 10 224
Georgetown (Penang)		Gosport and Alverstoke,		Gualeguaychu, Argentina.	13,000	Hamadan Parcia 38 000
Straits Settlements	94,086	England	33,300	Guanabacoa, Cuba	14,500	Hamah Turkey in Asia 60,000
Coorgiovek Puesia	14,000	Göteborg (Gottenborg).		Guanajuato, Mexico	35,682	IIIamamatan Taran 20,000
Georgievsk, Kussia	40 276	Sweden 1	73.875	Guanare, Venezuela	10,900	namamatsu, Japan 32,381
Gera, Germany	10.041	Cotha Germany	39 553	Guantanamo, Cuba	14,580	Hamborn, Germany101,703
Gerardmer, France	15,000	Cottonborg (Cöteborg)	-,,000	Guaratinguetá, Brazil	20,000	Hamburg, Germany931,035
Gerki, Nigeria	13,000	Canadan (Gotebotg),	73 875	Guastalla, Italy, (com.)	11,881	Hameln, Germany 22,061
Germiston, Transvaal,		Sweden.	10 644	Guatemala (New Guate-		Hamheung (Ham-Heung),
Union of South Africa	54,327	Gottesberg, Germany	27 504	mala) Guatemala	90,000	Chosen (Korea) 17.023
Gerona, Philippine Islands	13,615	Göttingen, Germany	31,394	Cuerra quil Equador	60,000	Hamilton, Scotland 38.644
Gerona, Spain	16,875	Gouda, Netherlands, (com.)	24,574	Guayaquii, Ecuador	15 500	Hamm Germany 43 663
Gerresheim, Germany	21,339	Goulburn, Australia	10,187	Gunat, Philippine Islands	27 307	Hamme Belgium 14 178
Changim Egypt	15,440	Govan, Scotland	89,725	Gubbio, Italy, (com.)	20 502	Hanamkonda India 10 497
Chatal India	14 525	Govana, Brazil	35,000	Guben, Germany	04 225	Tianam Commons 27 472
Charian India	30,420	Govaz Brazil	16,000	Gudiyattam, India	41,335	Hanau, Germany 37,472
TANGETONIE INCHE		Colan, Dicenting		Gudur India	17,251	Han-chung, China 70,000
Cl. 1 D.1	15 450	Graaf Reinet Union of				
Gheel, Belgium	15,458	Graaf Reinet, Union of	10,200	Guemlek, Turkey	12,000	Handsworth (Stafford-
Gheel, BelgiumGhent (Gand), Belgium	15,458 166,449	Graaf Reinet, Union of South Africa	10,200	Guemlek, Turkey	12,000 23,820	Handsworth (Stafford- shire), England 68,610
Gheel, Belgium	15,458 166,449 21,605	Graaf Reinet, Union of South AfricaGracia, Spain	10,200 45,050	Guemlek, TurkeyGuildford, England	12,000 23,820	Güstrow, Germany 17,805 Gütersloh, Germany 17,805 Gütersloh, Germany 18,336 Gwalior (Lashkar), India 19,433 Gympie, Australia 11,718 Gyoma, Hungary 18,314 Gyora, Hungary 18,314 Györ (Raab), Hungary 44,300 Gyula, Hungary 24,284 Haarlem, Netherlands, (com.) 9,440 Hachinohe, Japan 10,650 Hachioji, Japan 10,650 Hadersleben, Germany 13,046 Hagen, Germany 18,865 Hagonoy, Philippine Islands 18,865 Hagonoy, Philippine Islands (Grands 18,865 Hagonoy, Philippine Islands (Grands 18,865 Hagonoy, Philippine Islands (Hyderabad) (in Haiderabad) (in Ha

70	PRINCIPAL CITIES	OF THE WORLD	
Handsworth (Vorkshire)	Hereford England 22 568	Horst (in Westphalia).	Irvine, Scotland 10,180
England 14.198	Herford Germany 32.52	Germany 20,978	Isabela, Philippine Islands 12,836
Hang-Chau (Hang-chow),	Herisau, Switzerland 15,330	Horwich, England 16,285	Ischl, Austria
China350,000	Hermannstadt (Nagysze-	Hoshangabad, India 14,940	Iseghem, Belgium 14,158
Han-kau(Hankow), China 826,000	ben), Hungary 33,489	Hoshiarpur, India 17,549	Iserionn, Germany 31,274
Hanley, England 61,599	Hermopolis, Greece 17,773	Hospet, India 10,402	Iskilib Turkey in Asia 20 000
Chine* 110 000	Hermosillo, Mexico 14,576	Howrah India 179.006	Ismail. Russia 35.724
Hanover (Hannover) Ger-	Heretal Relainm 22 000	Hoylake and West Kirby.	Ismailia, Egypt 10,373
many302.375	Herten, Germany 17.673	England 14,029	Ismidt, Turkey in Asia 13,000
Hansi, India 16,523	Hertford, England 10.383	Hoyland Nether, England 14,638	Ispahan, Persia 75,000
Hanwell, England 19,129	Hertogenbosch ('s Herto-	Huaraz, Peru 17,000	Issoudun, France 13,949
Han-yang, China100,000	genbosch), Netherlands,	Hubli, India 60,214	Issy-les-Moulineaux,
Hapur, India	(com.) 34,928	Hu-chau, China	Tetalif Afghanistan 18 000
Harar, Abyssinia 45,000	Hesiach, Germany 16,884	Hucknau Torkard, Eng-	Istib (Ishtib) Servia 28 000
Harburg (in Hanover)	Heston and Isleworth,	Huddersheld England 107.821	Itaiahy, Brazil 15.800
Germany 67.025	Hetton England 15.676	Hue, French Indo-China, 50,000	Itchen, England 19,484
Harda, India 16,300	Heywood England 26.697	Huehuetenango, Guate-	Itú, Brazil
Hardenberg, Germany 12,606	Hidalgo del Parral, Mexico 14,748	mala 11,000	Itzehoe, Germany 16,547
Hardoi, India 12,174	Hikone, Japan 20,648	Huelva, Spain 29,072	Ivanovo Voznesensk, Kus-
Hardwar, India 25,597	Hilden, Germany 16,903	Huércal-Overa, Spain 15,763	S12
Harlingen, Netherlands,	Hildesheim, Germany 50,239	Huesca, Spain 11,970	Ivry-cur-Seine France 38 307
Harnut (Kharnut) Tur-	Hillah, Turkey in Asia 20,000	Hull (Kingston - upon -	Iwamizawa, Iapan 22,349
key in Asia 20.000	Hilongos, Philippine Is-	Hull), England277,991	Ixelles, Belgium 72,991
Harrogate, England 33,703	Hilyongum Notherlands	Husch, Roumania 16,500	Ixtapalapo, Mexico 24,507
Harrow-on-the-Hill, Eng-	(com) 31 455	duy, Belgium 14,545	Izalco, Salvador 12,792
land 17,074	Himedshi (Himeji), Japan 41,028	Hyde, England 33,437	Izhevsk, Russia 39,370
Hartlepool, England 20,615	Himeji (Himedshi), Japan 41,028	Hyderabad (Haidarabad),	Jabalpur (Jubbulpore),
Harwich, England 13,022	Hinckley, England 12.2 12,83	India500,625	Tacchebed India
Haslingden kngland 18 710	Hindley, England 24,100	Hypen-Vang Chosen	Taen Spain 29 217
Hasne, Germany 23,476	Hindupur, India 19,573	(Korea) 40.864	Iaffa (Ioppa). Turkey in
. Hasselt. Belgium 17.095	Hingangnat, India 17,00	Ibadan, Nigeria 175,000	Asia 50,000
Hastings, England 61,145	Hinging del Duque Spain 10.67	Ibagué, Colombia 24,936	Jaffna, Ceylon 40,539
Hathras, India 42,578	Hirosaki Japan 37 48	Ibajay, Philippine Islands 14,744	Jagadhri, India 13,462
Hattingen, Germany 12,749	Hiroshima, Japan 142.76	ıbshawai, Egypt 12,562	Jagdispur, India 11,451
Hatzield, Hungary 10,235	Hirschberg, Germany 20,564	lichalkaranji, India 19,920	Jägerndorf, Austria 16,700
Haumont, France 13,128	Hissar (Punjab), India 17,64	Ichang, China 45,000	Jagna, Philippine Islands 13,123
Hayre France 136 150	Hitchin, England 11,905	If clay Austria 25 014	Jagraon, India 11 121
Hawick, Scotland 16.877	Hobart (in Tasmania),	Ifglesias Italy 21.444	Taguarao Brazil 12 175
Hawthorn, Australia 24.353	Australia 27,500	igló. Hungary 10.525	Jahangirabad, India 11.572
Hayingen, Germany 11,482	Hoboken, Belgium 16,882	Igualada, Spain 10,442	Jaipur, India137,098
Haynau, Germany 10,461	Germany 17 24	Ikirun, Nigeria 60,000	Jais, India 12,688
Hazaribagh, India 15,799	Hodeida Turkey in Asia 50 000	Ilagan, Philippine Islands 16,008	Jalandhar (Jullundur),
Hazebrouck, France 12,819	Hódmező Vásárhely Hun-	ilesha, Yoruba 40,000	India 67,735
Heathtown (Wednesfield	gary 62.445	llliord, England 18,188	Jaiapa, Mexico
Heath) England 12.276	Hof, Germany 41,120	lihéos Brazil 20,000	jalapui (in Gujiat, Fun-
Heaton Norris, England, 11,240	Hohenlimburg, Germany 13,878	Ilkeston, England 31.657	Talesar India 14 348
Heavitree, England 10,950	Hohenlinde, Germany 10,339	Ilmenau, Germany 12,202	Jalgaon, India 16.259
Hebburn, England 21,763	Hohenmauth, Austria 10,960	Ilobasco, Salvador 12,552	Jalna, India 20,270
Hebron, Turkey in Asia 22,000	Inournalism) Germany 25 60	Ilobu, Nigeria 60.000	Jamada (Ujiyamada),
Hearlen Nathania 14,860	Hohenstein-Ernetthal Con	liono, Philippine Islands 19,054	Japan 37,539
(com) Hetherlands,	many 15 77	Horin, Nigeria 36,343	Jamaipur, India 17,965
Hegaza Egypt 10.038	Höhscheid, Germany, 16,089	Imola Italy 24.081	Jamboli (xamboli), Bul-
Heidelberg, Germany 56.016	Hoi-hau, China 12,009	Imus, Philippine Islands 12 912	Tambusar, India
Heidenheim (in Wurttem-	Ho-kow, China250,000	Inabanga, Philippine Is-	Jamkhandi, India 13 029
berg), Germany 17,780	Hollerich, Luxemburg 14,350	lands 12,002	Jammalamadugu, India. 13.852
Heilbronn, Germany 42,688	Holyhead, Wales 10,630	Ince-in-Makerfield, Eng-	Jammu, India 36,130
Helder, Netherlands,	Homberg (Phenish Pers	land 22,034	Jangipur, India 10,921
Hellenmes I ille France 10.071	sia) Germany 24 80	Indang, Philippine Islands 11,526	Janina (Yanina), Greece 20,000
Hellin Spain 12 559	Homburg (Hesse-Nassau).	Indore, India 80,080	Januay, Philippine Is-
Helmond. Netherlands.	Germany 14.33	l lands 10 283	Tands Zu,/38
(com.) 14,767	Homs, Turkey in Asia 60,00	Ingolstadt, Germany 23,745	Taro (in Hoilo) Philippine
Helmstedt, Germany 16,421	Hongkong (Br. Colony),	Innsbruck, Austria 53,194	Islands 10 681
Helsingborg (Halsingborg),	China467,77	Inowraslow (Hohensalza),	Jaro (in Leyte), Philippine
Sweden 33,863	Honolulu, Hawaii* 52,18	Germany 25,604	Islands 11,066
Helsingiors, Kussia 153,643	(com) Netherlands,	Insterburg, Germany 31,624	Jaroslaw, Austria 23,965
mark (Elsinore), Den-	Hoogezand Netherlands	Invercargill, New Zealand 12,782	Jarrow, England 33,726
Hemel Hempstead Eng -	(com.)10 66	Inch Edgrated Malar	Jasio, Austria 10,135
land12.888	Hooghly (Hugli), India 29.38	31 States 23 078	Jassy, Koumania 79,882
Hendon, England 38,800	Hoorn, Netherlands.	Ipswich, Australia 10.445	Hász-Berény Hungary 20,675
Hengelo, Netherlands,	(com.)11.01	6 Ipswich, England 73.932	Tativa. Spain 12 700
(com.)20,073	Hörde, Germany 32,79	I Iquique, Chile 45,000	Jauer, Germany 13 549
Henin-Lietard, France 16,016	Hornsey England 84,59	2 Iquitos, Peru 18,000	Jaunpur, India 42.771
Henzada, India 24,750	Horadanka American 11,29	Irapuato, Mexico 21,469	Jaworów, Austria 10,200
Herat Afghanistan 20 000	Horsens Denmark	Ulroit, Russia 11,000	Jehol (Cheng-te), China260,000
Heredia, Costa Rica 16.280	Horsham, England 11 21	4 Irkutek Siberia	Jeietz (Yelets), Russia 49,900
Color and Color and Color	' TINI	Horst (in Westphalia), Germany	Temappes, Beignum 14,270

				TIES OF THE WORLD		79
Jemeppe, Belgium	11.851	Kalmar, Sweden	15 706	Katwille Notherland		Kingston - upon - Thames, England 37,975 Kingstown, Ireland 17,227 Kingswood, England 12,700 King-te-chen, China 500,000 Kioto, Japan 442,462 Kiratpur, India 15,051 Kirchhörde, Germany 13,523 Kirin, Japan 32,189 Kirin, Manchuria 122,000 Kirk-Agatch, Turkey in Asia 15,000 Kirkby in Ashfield, Eng-
Jena, Germany	38,487	Kalocsa Hungary	12,790	(com)	40.448	Kingston - upon - Thames,
Jerémie, Haiti	11.000	Kalpi, India	10 130	Kayala Greece	10,417	England 37,975
Jerez de la Frontiera, Spain	64,250	Kaluga (Kalouga), Russia	54 000	Kawagoe Japan	26,000	Kingstown, Ireland 17,227
Jerez de los Caballeros.	,	Kalyan, India	10 743	Kawanove Japan	11 125	Kingswood, England 12,700
Spain	10,300	Kalyani, India	11,191	Kavalpatnan, India	11,746	Kioto Japan
Jerusalem, Turkey in Asia	69,000	Kamarhati, India	13,216	Kazan (Kasan), Russia	188 150	Kirathur India
Jesi, Italy	24,777	Kamen, Germany	10,754	Kazantik, Bulgaria	10.568	Kirchhörde Germany 12 522
Jetpur, India	15,919	Kamenetz-Podolsk, Russia	49,611	Kecskemét, Hungary	66.834	Kirin, Japan 32 190
Jette, Belgium	14,782	Kamenz, Germany	11,533	Keighley, England	43,487	Kirin Manchuria 122 000
Jhajjar, India	12,227	Kamishin, Russia	20,300	Kelat (Khelat), Baluchis-	,	Kirk-Agatch, Turkey in
Jhaira Patan Chhaoni, In-		Kampar, Federated Malay		tan*	14,000	Kirk-Agatch, Turkey in 15,000 Asia 15,000 Kirkby in Ashfield, England 15,378 Kirkcaldy, Scotland 39,000 Kirkee, India 10,797 Kirkintilloch, Scotland 11,932 Kirk Kilissia, Turkey 17,000 Kirsanof, Russia 11,400 Kishangark, India 12,603 Kishinef, Russia 129,000 Kishorgani, India 16,246
dia	14,315	States	11,604	Kelung (Külung), For-		Kirkby in Ashfield, Eng-
Jang-Magniana, India	24,382	Kampen, Netherlands,	40 84 8	mosa, Japan	17,110	land 15.378
Jhansi, India	55,724	(com.)	19,745	Kempten, Germany	21,001	Kirkcaldy, Scotland 39.600
Jacium, India	14,951	Kanagawa, Japan	12,000	Kendal, England	14,033	Kirkee, India 10,797
Jihuti (Lubuti) Evensh	12,219	Kananur, India	27,811	Kendrapara, India	15,245	Kirkintilloch, Scotland 11,932
Someliland*	12 000	Kanagawa Japan	10,004	Kenen (lena), Egypt	20,069	Kirk Kilissia, Turkey 17,000
Tiddah Turkay in Asia	22,000	Kandahar Afghanistan	25 000	Turkey in Asia	10.000	Kirsanof, Russia 11,400
Timamaylan Philippine	22,000	Kandhla India	11 563	Kerbéla Turkov in Asia	19,000	Kishangark, India 12,663
Jelande Islande	11 204	Kandi India	12 037	Kerdasa Emint	10.600	Kishinet, Russia129,000
Timinez Mexico	14 217	Kandy Ceylon	30 148	Kerkrade Netherlande	10,000	Kishinef, Russia
Tinigaran, Philippine Is-	,	Kanizsa (Nagykanizsa)	00,110	(com.)	15 666	Kiskumaias (Haias), Hun-
lands	14,256	Hungary	26 524	Kerkuk, Turkey in Asia	14,080	Kis-Hiszállás Hungary 12 520
Jinotega, Nicaragua	13,915	Kankan, French Sudan	11,700	Kerman, Persia	60,000	Kitah, Bokhara
Jitomir (Zhitomir), Russia	88,000	Kano, Nigeria	39.368	Kermanshah, Persia	32,000	Kiukiang China 36,000
Joazeiro, Brazil	14,000	Kapadwani, India	15,405	Kertch, Russia	56,670	Kiungchau China 43 000
Jodhphr, India	79,109	Kaposvár, Hungary	24,124	Kettering, England	29,972	Kladno, Austria
Johannesburg, Transvaal,		Kapurthala, India	18,519	Kew, Australia	11,143	Alshorganj, India
Union of South Africa2	237,220	Karachi, India	151,903	Khabarovsk, Siberia	54,879	Klattau, Austria 14 400
Johnstone, Scotland	12,045	Karad, India	11,499	Khagaria, India	11,492	Klausenburg (Kolsovar),
Johore, Bahru (Johore*),		Karaikkudı, India	11,801	Khairabad, India	13,774	Hungary 60,808
Malay States	22,500	Karakal, Roumania	13,400	Khairpur, India	14,014	Klosterneuberg, Austria. 14,800
Jokjokarta, Java	79,507	Karanja, India	16,535	Khamgaon, India	18,341	Knin, Austria 24,919
Jonkoping, Sweden	27,804	Karasubazar, Russia	13,900	Knandwa, India	19,401	Kobe, Japan378,231
Joppa (Jana), Turkey in	EO 000	Karauli, India	23,482	Khania (Canea), Crete	24,207	Kobelyaki, Russia 16,000
Tubbulana (Tubalaus) In	30,000	Karczag, Hungary	22,990	Kharout (Harout) Tur-	40,300	Kobienz (Cobienz), Ger-
Juppulpore (Jabaipur), in-	100 651	Karikal, French India	20,000	knarput (Harput), Tur-	20.000	many 56,487
Tuchitan Mariae	13 801	Karliskrona, Sweden	27,440	Khartum Anglo-Royntian	20,000	Vochi Tapan
Tuoyana Salvadar	12 806	Aarisbad (Carisbad), Aus-	17 450	Sudan*	32 182	Kochi, Japan 38,279 Kockelberg, Belgium 12,750 Kocstendil, Bulgaria 13,748
Tuiz de Fôre Brezil	30,000	tria	17,439	Khartum, North, Anglo-	02,102	Koestendil Rulgaria 12,730
Juchitan, Mexico Jucuapa, Salvador Juiz de Fôra, Brazil Jullunder (Jalandhar),	00,000	Karlsburg (Gyulateher-	11 616	i Egyptian Silgan	20./121	Kotii lanan 40 883
Junet, Belgium	67,735	vár) Hungary Karlshorst, Germany	10 117	Khatmandu (Katmandu).	,,	Kofu, Japan 49,882 Kohat, India 30,762 Koil (Aligarh), India 64,825 Kokand, Russia in Asia 113,715 Kokura, Japan 31,615
India Jumitt, Belgium Jumitt, Spain Junaila, Spain Junagarh, India Jundiahy, Brazil Jungbunzlau, Austria Jutiapa, Guatemala Jutiapa, Guatemala Jutiapa, Honduras Kabul, Afghanistan* 1 Kadaiyanallur, India Kadi, India	27,956	Karlembe Germany	3/ 313	Nepal*	80,000	Koil (Aligarh), India 64.825
Tumilla Spain	16,446	Karlstad Sweden	17 003	Khelat (Kelat), Baluchis-		Kokand, Russia in Asia 113.715
Junagarh India	34,251	Karnak Egypt	12 585	tan*	14,000	Kokura, Japan 31.615
Jundiahy, Brazil	16,000	Kamal India	23 559	Kherson (Cherson), Russia	92,000	Kolar, India
Tungbunzlau, Austria	16,350	Karnul (Kurnool), India	25.376	Khiva, Russia in Asia	30,000	Kolberg, Germany 24,786 Kolding, Denmark 14,219
Tutiapa, Guatemala	11,023	Karolinentha Austria	24.230	Khmielnik (Chmielnik),		Kolding, Denmark 14,219
Juticalpa, Honduras	11,103	Károlyváros, Hungary	16,112	Russia	12,228	Kolhapur, India 54,373 Kolin, Austria 16,500
Kabul, Afghanistan*1	50,000	Kars Trans Caucasia.	- '	Khoi, Persia	28,000	Kolin, Austria 16,500
Kadaiyanallur, India	13,939	Russia	35.485	Khojend (Khodjent), Rus-	20.005	Kollegal, India 13,729 Kolmar (Colmar), Germany 43,808
Kadi, India Kadirabad, India Kadiri, India	13,070	Karshi, Bokhara	25,000	Sla In Asia	17 000	Kolmar (Colmar), Ger-
Kadirabad, India	11,159	Kartapur, Ind a	10,840	Vhonger (Voncer) Porcio	17,000	many 43,808
Kadiri, India	10,493	Karur, India		Vhoral Puccia	10 700	Köln (Cologne), Germany 516,527
		Karwar, India	16.847	Khotin (Chotin Chotzim)	10,700	Kolompa Pussia 22,070
Kairel Zayat, Egypt.	11,403	Karwin, Austria Kasan (Kazan), Russia18	16,800	Russia	30,420	Kolomea, Austria
Kafrel Zayat, Egypt. Kagi (Chia-i), Formosa, Japan. Kagoshima, Japan. Kagoshima, Japan. Kaifong, China.	22.218	Kasan (Kazan), Russia18	88,150	Khulna, India	10,426	Hungary 60 808
Vagoshima Tanan	63.640	Kaschau (Kassa), Hungary	4,211	Khurja, India	29,277	Hungary 60,808 Kolyvan, Siberia 14,000 Kom (Kum), Persia 25,000
Kaifong China	00.000	Kasganj, India	17,080	Khushab, India	11,403	Kom (Kum), Persia 25,000
Kaimgani India	10.369	Kashan, Persia	10,000	K hvalvnek Kussia	ючини	Comprom (Komorn)
Kainganj India Kaira, India Kairana, India Kairana, Tunis Kaiswan, Tunis Kaiserslautern, Germany	10,392	Kashgar, Eastern Turkes-	000	Kiao-chau (to Germany),		Hungary 22,337 Komatsu, Japan 12,800 Komorn (Komárom), Hungary 22,337
Kairana India	19,304	tan	0,000	_ China	50,000 1	Komatsu, Japan 12,800
Kairwan, Tunis	21,000	Kashipur, India	12,023	Kidderminster, England	24,333 1	Komorn (Komárom),
Kaiserslautern, Germany.	54,659	Kasimof, Russia	14,250	Kief, Russia50	15,980	Hungary 22,337
Kaissarieh, Turkey in Asia-	54,000	Kasipur (Cossipur-Chit-	10 470	Kiel, Germany	11,027	Comotau, Austria 19,567
Kaithal, India	14,408	pur), India4	6,178	Kleice, Kussia	02,400	Komotau, Austria 19,567 Kong, French West Africa 15,000 Konia (Konieh), Turkey in Asia
Kalach, Russia	[6,500]	Kasr-el-Kebir, Morocco 2	3,000	Kilmannook Sastland	10,313	in Asia (Konten), Turkey
Kalahasti, India	1,992	kassa (Kaschau), Hun-	14 211	Comborly Transpage 3	77,729	Conjugarity Austria 11 100
Kalamata, Greece 1	13,123	Zacaba (Cacaba) Tue	1,211	Kimberly, Transvaal,	4 331	Königgrätz, Austria 11,100
Kalarashi, Roumania 1	11,411	less in Acid	5 000	Timpolung Roumania	4 861 E	Conjuliche Weinherge
Kalbe (on the Saale), Ger-	2 000 1	Zaccel (Caccel) Cormany 15	3.190	Kinchau (Kin-Chow)	1,001	Austria 77 120
many 1	12,088	Zastamuni Turkar in	-,.,0	Manchuria. 27	6.270 F	Conigsberg Germany 245,994
Kale Sultanieh (Darda-	1 000	Asia 1 urkey in	5 000 1	Kinel-Tcherkasska, Rus-	T.	Conigshitte, Germany (2.641
_ nelles), Turkey in Asia_ 1	15,000	Zestoria Grace	4 000	sia 1	6,000 8	Conitz, Germany 12,005
Kalgan, China	2 488 1	Zacur India	2 022 1	King's Lynn, England 2	0,201 F	onotop, Russia 24,000
Kaigoorlie, Australia	2 562 1	Vasvir. Persia.	0.000	King's Norton and North-	k	Consar (Khonsar), Persia_ 12,000
Kalisz (Kalish), Russia 5	7 657 1	Caternhere Germany 1	7.162	field, England 8	1,153 K	Constantinof, Russia 19,000
Kalk, Germany 2	7,007	Zatmandu (Khatmandu).	1	Kingston, Jamaica* 5	7,379 E	Coprili (Kuprili), Servia 15,000
Kaikandele (Tetovo), Ser-	0.070	Nepal 8	0,000	Kingston-upon-Hull	E CE	oritza (Goritza), Albania 10,000
Vallidaikurishi India	4.913 F	Cattowitz, Germany 4	3,173	(Hull), England27	7,991 R	Königgrätz, Austria 11,100 Königinhof, Austria 15,108 Königiche Weinberge, Austria 77,120 Königsberg, Germany 245,994 Königsbütte, Germany 12,005 Königshütte, Germany 12,005 Könotop, Russia 24,000 Könosar (Khonsar), Persia 12,000 Könsar (Khonsar), Persia 19,000 Könsar (Khonsar), Persia 10,000 Königkütte, Germany 10,000 Königkütte, Germany 10,000 Königkütte, Germany 10,000 Köslin (Cöslin), Germany 23,236
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Kostendil, Bulgaria	12.347	Kursk, Russia	75,000	Las Palmas, Canary Is-		Les Sables-d'Olonne,	
Kostroma, Russia	67,300	Kurume, Japan	35,928	lands	60,338	France 1	12,673
Kota Bharu, Feudatory	,	Kustania, Russia in Asia	27,104	Lassa (Lhassa), Tibet*	30,000	Lessines, Belgium 1	10,736
Malay States	12,000	Kustendie (Constantza).		Lastra a Signa, Italy,		Letichef, Russia 1	10,000
Kotah India	33 657	Roumania	26.628	(com.)	12.838	Leutzsch, Germany 1	2.327
Väthan (Cäthan) Car	00,007	Viictrin Cermany	17 600	Latacunga Ecuador	12 000	Levallois-Perret, France 6	8.703
Rother (Cothen), Ger-	22 416	Vutobio (Voitoia) Tur	11,000	Lattakia Turkey in Acia	25,000	Lewes England 1	0 972
Watches (Version) Domin	12 000	kutama (Kantaia), Iui-	34 000	Latur India	10 470	Leyton England 12	4 735
Kotshan (Kuchan), Fersia	12,000	Cutain Dungin	54,000	Lauban Cormany	15 167	Lhacea (Lacea) Tibet* 3	20,000
Kottbus (Cottbus), Ger-	40 (42	Kutais, Kussia	10 207	Tauban, Germany	13,407	Liong chan China	0,000
_ many	48,043	Kutiyana, india	10,407	Lauenburg (in Fomerania),	12016	Liang-Chau, China 4	0,000
Koumanova, Turkey	12,000	Kutno, Kussia	13,500	Germany	13,910	Liao-yang, Manchuria 4	7,000
Kovel, Russia	20,800	Kuttenburg, Austria	15,711	Laun, Bohemia, Austria	11,500	Libau (Libava), Kussia - o	7,300
Kovno, Russia	88,000	Kuwana, Japan	21,544	Launceston, Australia	20,937	Libmanan, Philippine Is-	
Kovrof, Russia	16,750	Kuznetzk, Russia	23,400	La Union, Spain	29,599	lands1	7,410
Kozlof (Eupatoria), Russia	30,432	Kwala (Kuala) Lumpur,		Laurahütte, Germany	16,120	Libourne, France1	.9,323
Krajoevatz, Servia	18,386	Federated Malay States	46,718	Lauria, Italy, (com.)	10,000	Licata, Italy, (com.) 2	4,530
Krajova (Crajova), Rou-		Kwang-Chow-Wan, Indo-		Laurion (Laurium), Greece	10,007	Lichtenburg, Germany 8	1,199
mania	51.973	China1	190,000	Lausanne, Switzerland	64.446	Lichterfelde, Germany 4	2.513
Krakow, Austria	151,886	La Carlota, Philippine Is-		Lavadores, Spain	21,070	Lida, Russia 1	0.150
Krasnovarsk Siberia	80.104	lands	13.097	Laval, France	30,252	Lieben, Austria, (com.) 2	1.300
Kraenyctaw Russia	10.750	La Chaux de Fonds, Switze		Lavello Italy (com)	10 163	Liège Belgium 16	7 521
Very Cormany	17 856	erland	37 751	Leamington (Royal Leam-	20,200	Liegnitz Germany 6	6 620
Vacial (Cariold) Con	17,000	Lachmanacah India	10 176	ington (Royal Deam	26 000	Lion king China	0,020
Fieleid (Clefeid), Get-	100 406	La Ciatat Engage	12 270	I shadin Danie	14 050	r: Deleises	15 060
Wany	00 700	I'Acul du Nord II-iti	12,570	Le Pousset France	11 000	Licire, Deigium	2,009
Kremenchug, Kussia	20,700	L'Acui du Nord, Halti,	10.000	Le Bouscat, France	11,092	Lievin, France 2	2,070
Aremenetz, Kussia	20,000	Com.)	25,000	Lebrija, Spain	11,500	Ligao, Philippine Islands 1	1.001
Krems, Austria	14,404	Laeken, Belgium	33,024	Le Catean, France	10,700	Lille (Lisle), France21	7,807
Kremsier, Austria	10,572	La Estrada, Spain	27,898	Lecce, Italy, (com.)	30,222	Liloan, Philippine Islands 1	0,024
Kreuzburg, Germany	11,588	La Flèche, France	10,663	Lecco, Italy, (com.)	12,146	Lima, Peru*14	3,500
Kreuznach, Germany	23,167	Lagos, Mexico	12,243	Le Chambon-Feugerolles,		Limasol, Cyprus 1	0,032
Krishnagar, India	24,547	Lagos, Nigeria	60,000	France	12,011	Limbach. Germany 1	6.806
Krishnagari, India	10,446	La Grita, Venezuela	10,000	Le Chatelard, Switzerland	11,859	Limbdi, India	2.485
Kristiania (Christiania).		La Guaira, Venezuela	15,000	Lechhausen, Germany	18.405	Limbé, Haiti, (com.) 1	6.000
Norway*	243,801	Laharpur, India	10,997	Le Creuzot, France	35.587	Limburg (on the Lahn).	-,
Kristiansand (Christians-		Lahore, India	28,687	Ledeberg, Belgium	14,000	Germany	0.965
and), Norway	15.154	Lahr, Germany	15,191	Leeds, England4	45.550	Limerick Ireland 3.	8 403
Kristianstad (Christian-	,	Laibach, Austria	41.727	Leek, England	16.663	Limoges France 0	2 181
stad). Sweden	11,680	Lai-yang, China	50,000	Leer, Germany	12,690	Linares Chile	1 122
Kristiansund (Christian-		Lakhimpur, India	10,110	Leeuwarden, Netherlands,	,	Linares Mexico 2	5 600
sund), Norway	13,012	Lakon, India	25,000	(com.)	36.522	Linares Spain	6 287
Krivoi-Rog, Russia	14.500	Lakshmeshwar, India	12.860	Leewarderadeel Nether-	00,000	Lincoln England 5	7 285
Kronstadt (Brasso), Hun-		Lalgani, India	11.502	lands (com)	11 504	Tinden (in Hanover) Cer-	1,200
gary	68,300	Lalin, Spain	16,238	Leghorn, Italy, (com.) 1	05 315	many 7	3 370
Kronstadt (Cronstadt).		La Linea, Spain	32,005	Legnago, Italy, (com.)	16 982	Linden (in Westphalia)	5,519
Russia	60,000	Lalitpur, India	11,560	Legnano, Italy, (com.)	24.367	Germany 1	1 081
Krotoschin, Germany	13,064	La Louvière, Belgium	21,379	Le Havre (Havre), France1	36.159	Lindenthal (near Cologne)	2,701
Kroya (Ak Hissar), Alba-		La Maddalena, Italy,		Lehe, Germany	37.457	Germany 1	6.034
nia	10,000	(com.)	10.184	Leicester, England 2	27 222	Lingayén Philippina Is-	0,034
Krugersdorp, Transvaal.		La Madeleine, France	13.522	Leichhardt, Australia	24 130	lande 2	1 520
Union of South Africa	53,881	Lambézellec, France	18,870	Leiden. Netherlands.	,,	Linguaglosca Italy (com) 1	2 652
Krushevo, Servia.	10,000	Lampertheim, Germany	10,333	(com.)	58 253	Linköping Sweden	3 612
Kuala (Kwala), Lumpur.		Lancaster, England	41.410	Leigh (in Lancashire)	00,200	Ling Austria	7 917
Federated Malay States	46,718	Lanchau, China1	10,000	England	44 103	Line Philippine Islands 2	7 024
Kuba, Russia	14,000	Lanciano, Italy, (com.)	19.917		22,200	mibe' I mubbine retung 9	イップひ生
Kuchan (Kotshan), Persia	40 000	F 1 (D) 1 1 0	4 4-	Leidzig, Germany 5	XQ X50	Linari Italy (com) 1	5 616
	12.000	Landau (Ptalz), Germany	17.767	Leipzig, Germany5	89,850	Lipari, Italy, (com.) 1	5,616
Kuchawan, India	12,000	Landau (Pialz), Germany.	17,767	Leipzig, Germany5 Leith, Scotland5 Leitmeritz, Bohemia, Aus	89,850	Lipari, Italy, (com.) 1 Lipetsk, Russia 2	5,616
Kuchawan, India	12,000 10,749	Landau (Pialz), Germany. Landeshut, Germany Landsberg (on the War-	17,767	Leith, Scotland	89,850	Lipari, Italy, (com.) 1 Lipetsk, Russia 2 Lipine, Germany 1	5,616 5,000 8,190
Kuchawan, India Kuching (Sarawak), Sara- wak*, Borneo	12,000 10,749 30,000	Landau (Pialz), Germany Landeshut, Germany Landsberg (on the War- the), Germany	17,767 13,571 39,330	Leipzig, Germany 5 Leith, Scotland Leitmeritz, Bohemia, Austria Le Kremlin Biottra France	89,850 80,489 15,500	Lipari, Italy, (com.) 1 Lipetsk, Russia 2 Lipine, Germany 1 Lippstadt, Germany 1	5,616 5,000 8,190 6,360
Kuchawan, India Kuching (Sarawak), Sara- wak*, Borneo Kukea, Nigeria	10,749 30,000 50,000	Landau (Pialz), Germany Landeshut, Germany Landsberg (on the Warthe), Germany Landshut, Germany	17,767 13,571 39,339 25,137	Leith, Scotland Leith, Scotland Leitmeritz, Bohemia, Austria Le Locle, Switzerland	89,850 80,489 15,500 13.018	Lipari, Italy, (com.) 1 Lipetsk, Russia 2 Lipine, Germany 1 Lippstadt, Germany 1 Lisbon, Portugal* 43	5,616 5,000 8,190 6,360 5,359
Kuchawan, India Kuching (Sarawak), Sara- wak*, Borneo Kukea, Nigeria Kuku-khoto, China	10,749 30,000 50,000 80,000	Landau (Pialz), Germany Landeshut, Germany Landsberg (on the Warthe), Germany Landshut, Germany Landshut, Germany	17,767 13,571 39,339 25,137 16,459	Leipzig, Germany 5 Leith, Scotland Leitmeritz, Bohemia, Austria Le Kremlin-Bicétre, France Le Locle, Switzerland Le Mans France	15,500 13,018 12,722	Lipari, Italy, (com.) 1 Lipetsk, Russia 2 Lipine, Germany 1 Lippstadt, Germany 1 Lisbon, Portugal* 43 Lisburn, Ireland 1	5,616 5,000 8,190 6,360 5,359 2,172
Kuchawan, India Kuching (Sarawak), Sara- wak* Borneo Kukea, Nigeria Kuku-khoto, China Kulasekarapatam India	30,000 50,000 80,000 19,898	Landau (Pfalz), Germany Landshut, Germany Landsberg (on the War- the), Germany Landshut, Germany Landskrona, Sweden Langgran, Philippine, Is-	17,767 13,571 39,339 25,137 16,459	Leipzig, Germany 5 Leith, Scotland 1. Leitmeritz, Bohemia, Austria 1. Le Kremlin-Bicétre, France Le Locle, Switzerland 1. Le Mans, France 1.	15,500 13,018 12,722 69,361	Lipari, Italy, (com.) 1 Lipetsk, Russia 2 Lipine, Germany 1 Lippstadt, Germany 1 Lisbon, Portugal* 43 Lisburn, Ireland 1 Lisieux, France 1	5,616 5,000 8,190 6,360 5,359 2,172 16,239
Kuchawan, India Kuching (Sarawak), Sara- wak*, Borneo Kukea, Nigeria Kuku-khoto, China Kuldasekarapatnam, India Kuldia Eastern Turkestan	30,000 50,000 80,000 19,898	Landeshut, Germany Landsberg (on the War- the), Germany Landshut, Germany Landskrona, Sweden Landskrona, Philippine Is- lands	17,767 13,571 39,339 25,137 16,459	Leipzig, Germany	15,500 13,018 12,722 69,361 06,113	Lipari, Italy, (com.) 1 Lipari, Russia 2 Lipitsk, Russia 2 Lipine, Germany 1 Lippstadt, Germany 1 Lisbon, Portugal* 43 Lisburn, Ireland 1 Lisieux, France 1 Lisle (Lille), France 21	5,616 5,000 8,190 6,360 5,359 2,172 16,239 17,807
Kuchawan, India Kuching (Sarawak), Sara- wak*, Borneo Kukea, Nigeria Kuku-khoto, China Kulasekarapatnam, India Kuldja, Eastern Turkestan	12,000 10,749 30,000 50,000 80,000 19,898 14,000	Landeshut, Germany Landsberg (on the Warthe), Germany Landshut, Germany Landshut, Germany Landshut, Germany Landshut, Germany Langaran, Philippine Islangands	17,767 13,571 39,339 25,137 16,459 11,318	Leipzig, Germany. 5 Leith, Scotland Leith, Scotland Leithmeritz, Bohemia, Austria. Le Kremlin-Bicetre, France Le Locle, Switzerland Le Mans, France Lemberg, Austria. 2 Lemery, Philippine Islands	15,500 13,018 12,722 69,361 06,113 11,150	Lipari, Italy, (com.)	5,616 5,000 8,190 6,360 5,359 2,172 16,239 17,807
Kuchawan, India Kuching (Sarawak), Sarawak*, Borneo Kukea, Nigeria Kuku-khoto, China Kulasekarapatnam, India Kuldja, Eastern Turkestan Kuldo, Germany Kuldoko (Germany	12,000 10,749 30,000 50,000 80,000 19,898 14,000 11,718	Landeslut, Germany Landsberg (on the Warthe), Germany Landsburg (on the Warthe), Germany Landshut, Germany Landskrona, Sweden Langaran, Philippine Islands Langagebielau, Germany	17,767 13,571 39,339 25,137 16,459 11,318 18,514	Leipzig, Germany	15,500 13,018 12,722 69,361 06,113 11,150 10,000	Lipari, Italy, (com.) 1 Lipari, Russia 2 Lipitsk, Russia 2 Lipine, Germany 1 Lippstadt, Germany 1 Lisbon, Portugal* 43 Lisburn, Ireland 1 Lisieux, France 1 Lisle (Lille), France 21 Lissa, Germany 1 Lissone, Italy, (com.) 1	5,616 5,000 8,190 6,360 5,359 2,172 16,239 17,807 17,156 10,580
Kuchawan, India Kuching (Sarawak), Sarawak*, Borneo Kukea, Nigeria Kuku-khoto, China Kulasekarapatnam, India Kuldja, Eastern Turkestan Kulm, Germany Kulmbach, Germany	12,000 10,749 30,000 50,000 80,000 19,898 14,000 11,718 10,731	Landeshut, Germany. Landsberg (on the Warthe), Germany Landshut, Germany Landshut, Germany Landskrona, Sweden Langaran, Philippine Islangaran, Philippine Islangendreer, Germany Langendreer, Germany Langendreer, Germany	17,767 13,571 39,339 25,137 16,459 11,318 18,514 26,390	Leipzig, Germany. 5 Leith, Scotland. 1 Leithmeritz, Bohemia, Austria. 1 Le Kremlin-Bicetre, France Le Locle, Switzerland. 1 Le Mans, France Lemberg, Austria. 2 Lemery, Philippine Islands Le Moule, Guadeloupe. 1 Lena, Spain. 1	15,500 13,018 12,722 69,361 06,113 11,150 10,000 12,239	Lipari, Italy, (com.) 1 Lipatsk, Russia 2 Lipitsk, Russia 2 Lipine, Germany 1 Lippstadt, Germany 1 Lisbon, Portugal* 43 Lisburn, Ireland 1 Lisieux, France 1 Lisle (Lille), France 21 Lissa, Germany 1 Litsone, Italy, (com.) 1 Litherland, England 1	5,616 5,000 8,190 6,360 5,359 2,172 6,239 7,807 17,156 10,580 14,795
Kuchawan, India Kuching (Sarawak), Sara- wak*, Borneo Kukea, Nigeria Kuku-khoto, China Kulasekarapatnam, India Kuldja, Eastern Turkestan Kulm, Germany Kulmsee (Culmsee), Ger-	12,000 10,749 30,000 50,000 80,000 19,898 14,000 11,718 10,731	Landeshut, Germany. Landeshut, Germany. Landsberg (on the Warthe), Germany Landshut, Germany. Landskrona, Sweden Langaran, Philippine Islands. Langenbielau, Germany. Langendreer, Germany. Langensalza, Germany. Langensalza, Germany.	17,767 13,571 39,339 25,137 16,459 11,318 18,514 26,390 12,663	Leipzig, Germany. 5 Leith, Scotland Leithmeritz, Bohemia, Austria. Le Kremlin-Bicétre, France Le Locle, Switzerland Le Mans, France Lemberg, Austria. Lemery, Philippine Islands Le Moule, Guadeloupe Lena, Spain Lenne, Germany.	15,500 13,018 12,722 69,361 06,113 11,150 10,000 12,239 13,123	Lipari, Italy, (com.) 1 Lipari, Russia 2 Lipites, Russia 2 Lipite, Germany 1 Lippstadt, Germany 1 Lisbon, Portugal* 43 Lisburn, Ireland 1 Lisieux, France 1 Lisle (Lille), France 21 Lissa, Germany 1 Lissone, Italy, (com.) 1 Litherland, England 1 Littin, Russia 1	.5,616 .5,000 .8,190 .6,360 .5,359 .2,172 .6,239 .7,807 .7,156 .0,580 .4,795 .0,200
Kuchawan, India Kuching (Sarawak), Sarawak*, Borneo Kuku*, Nigeria Kuku*, Khoto, China Kulasekarapatnam, India Kuldja, Eastern Turkestan Kulm, Germany Kulmbach, Germany Kulmsee (Culmsee), Germany Kur, (Kora), Parsia	12,000 10,749 30,000 50,000 19,898 14,000 11,718 10,731 10,612	Landeslut, Germany Landsberg (on the Warthe), Germany Landshut, Germany Landshut, Germany Landshut, Germany Landskrona, Sweden Langaran, Philippine Islands Langenbielau, Germany Langenbelau, Germany Langengendreer, Germany Langengenfeld, Germany Langerfeld, Germany	17,767 13,571 39,339 25,137 16,459 11,318 18,514 26,390 12,663 14,832	Leipzig, Germany	15,500 13,018 12,722 69,361 06,113 11,150 10,000 12,239 13,123 31,812	Lipari, Italy, (com.) 1 Lipetsk, Russia 2 Lipitsk, Russia 2 Lipitsk, Germany 1 Lippstadt, Germany 1 Lisbon, Portugal* 43 Lisburn, Ireland 1 Lisieux, France 1 Lisie (Lille), France 21 Lissa, Germany 1 Lissone, Italy, (com.) 1 Litherland, England 1 Litin, Russia 1 Littleborough, England 1	5,616 5,000 8,190 6,360 6,360 65,359 17,156 10,580 14,795 10,200 11,697
Kuchawan, India Kuching (Sarawak), Sarawak), Sarawak), Sorneo Kukea, Nigeria Kuku-khoto, China Kulasekarapatnam, India Kuldja, Eastern Turkestan Kulm, Germany Kulmbach, Germany Kulmsee (Culmsee), Germany Kumsee (Culmsee), Germany Kum (Kom), Persia	12,000 10,749 30,000 50,000 80,000 19,898 14,000 11,718 10,731 10,612 25,000	Landeshut, Germany. Landeshut, Germany. Landsberg (on the Warthe), Germany Landshut, Germany. Landshut, Germany. Landshut, Germany. Langaran, Philippine Islands. Langenbielau, Germany. Langensalza, Germany. Langeridel, Germany.	17,767 13,571 39,339 25,137 16,459 11,318 18,514 26,390 12,663 14,832 25,828	Leipzig, Germany. 5 Leith, Scotland Leith, Scotland Leithmeritz, Bohemia, Austria. Le Kremlin-Bicetre, France Le Locle, Switzerland Le Mans, France Lemberg, Austria Lemberg, Austria Lemberg, Guadeloupe Lena, Spain Lennep, Germany Lens, France Lentini, Italy, (com.)	89,850 80,489 15,500 13,018 12,722 10,000 11,150 10,000 12,239 13,123 31,812 22,904	Lipari, Italy, (com.) 1 Lipetsk, Russia 2 Lipitsk, Russia 2 Lipine, Germany 1 Lippstadt, Germany 1 Lisbon, Portugal* 43 Lisburn, Ireland 1 Lisieux, France 1 Lisse (Lille), France 21 Lissa, Germany 1 Lissone, Italy, (com.) 1 Litherland, England 1 Litin, Russia 1 Littleborough, England 1 Littleborough, England 1 Litverpool, England 1	5,616 5,000 8,190 6,360 6,360 65,359 17,156 10,580 14,795 10,200 11,697 16,421
Kuchawan, India Kuching (Sarawak), Sarawak*, Borneo Kukea, Nigeria. Kuku-khoto, China Kulasekarapatnam, India. Kuldja, Eastern Turkestan Kulm Germany Kulmbach, Germany Kulmsee (Culmsee), Germany Kum (Kom), Persia. Kumagaya, Japan	12,000 10,749 30,000 50,000 80,000 11,718 10,731 10,612 25,000 11,000 61,233	Landeshut, Germany Landeshut, Germany Landsberg (on the War- the), Germany Landshut, Germany Landskrona, Sweden Langsaran, Philippine Is- lands Langenbielau, Germany Langenberer, Germany Langengerfeld, Germany Langerfeld, Germany Langerfeld, Germany Langfuhr, Germ	17,767 13,571 39,339 25,137 16,459 11,318 18,514 26,390 12,663 14,832 25,828 25,564 24,454	Leipzig, Germany. 5 Leith, Scotland Leithmeritz, Bohemia, Austria Le Kremlin-Bicétre, France Le Locle, Switzerland Le Mans, France Lemberg, Austria. 2 Lemery, Philippine Islands Le Moule, Guadeloupe. Lena, Spain Lennep, Germany. Lens, France. Lentini, Italy, (com.) Leoben (in Styria), Austria	89,850 80,489 15,500 13,018 12,722 69,361 06,113 11,150 10,000 12,239 13,123 31,812 22,904 11,504	Lipari, Italy, (com.) 1 Lipari, Russia 2 Lipitsk, Russia 2 Lipitsk, Russia 2 Lipitsk, Germany 1 Lippstadt, Germany 1 Lisbon, Portugal* 43 Lisburn, Ireland 1 Lisieux, France 1 Lisle (Lille), France 21 Lissa, Germany 1 Litsone, Italy, (com.) 1 Litherland, England 1 Littin, Russia 1 Littleborough, England 1 Liversed, England 7 Liversed, England 7 Liversed, England 7	5,616 5,000 8,190 6,360 15,359 12,172 16,239 17,807 17,156 10,580 14,795 10,200 11,697 14,658
Kuchawan, India Kuching (Sarawak), Sarawak*, Borneo Kukea, Nigeria Kuku-khoto, China Kulasekarapatnam, India Kuldja, Eastern Turkestan Kulm Germany Kulmbach, Germany Kulmbach, Germany Kulmsee (Culmsee), Germany Kum (Kom), Persia Kumagaya, Japan Kumamoto, Japan Kumamoto, Japan Kumamoto, Japan	12,000 10,749 30,000 50,000 19,898 14,000 11,718 10,731 10,612 25,000 11,000 61,233 18,853	Landeshut, Germany. Landeshut, Germany. Landshut, Germany. Landshut, Germany. Landshut, Germany. Landshut, Germany. Landshut, Germany. Langendsean, Philippine Islands. Langenbielau, Germany. Langendreer, Germany. Langerield, Germany. Langfuhr, Germany. Langfuhr, Germany. Langred, Spain. Laoag, Philippine Islands.	17,767 13,571 39,339 25,137 16,459 11,318 18,514 26,390 12,663 14,832 25,828 25,564 34,454	Leipzig, Germany. 5 Leith, Scotland. Leithmeritz, Bohemia, Austria. Le Kremlin-Bicetre, France Le Locle, Switzerland. Le Mans, France Lemberg, Austria. 2 Lemery, Philippine Islands Le Moule, Guadeloupe. Lena, Spain. Lennep, Germany. Lens, France. Lentini, Italy, (com.). Leoben (in Styria), Austria Leobschütz, Germany.	89,850 80,489 15,500 13,018 12,722 69,361 06,113 11,150 10,000 12,239 13,123 31,812 22,904 11,504 13,081	Lipari, Italy, (com.) 1 Lipetsk, Russia 2 Lipitsk, Russia 2 Lipitsk, Germany 1 Lippstadt, Germany 1 Lisbon, Portugal* 43 Lisburn, Ireland 1 Lisieux, France 1 Lisieux, France 1 Lisse, Germany 1 Lissone, Italy, (com.) 1 Litherland, England 1 Litin, Russia 1 Littleborough, England 7 Littleborough, England 74 Liversedge, England 74 Liversedge, England 1 Livny, Russia 1	.5,616 .5,000 .8,190 .6,360 .6,369 .12,172 .16,239 .17,807 .17,156 .10,580 .14,795 .10,200 .16,421 .14,658
Kuchawan, India Kuching (Sarawak), Sarawak), Sarawak), Sorneo Kukea, Nigeria Kuku-khoto, China Kulasekarapatnam, India Kuldja, Eastern Turkestan Kulm, Germany Kulmbach, Germany Kulmbach, Germany Kulmsee (Culmsee), Germany Kum (Kom), Persia Kumagaya, Japan Kumagaya, Japan Kumasi, Gold Coast Kumasi, Gold Coast Kumasi, Gold Coast	12,000 10,749 30,000 50,000 80,000 19,898 14,000 11,718 10,731 10,612 25,000 11,000 61,233 18,853	Landeshuf, Germany Landeshuf, Germany Landshuf, Germany Landshuf, Germany Landshut, Germany Landshut, Germany Landskrona, Sweden Langaran, Philippine Islands Langenbielau, Germany Langenderer, Germany Langerfeld, Germany Langer, Spain Laoag, Philippine Islands Laon, France La Par Robberte	17,767 13,571 39,339 25,137 16,459 11,318 18,514 26,390 12,663 14,832 25,828 25,564 34,454 15,288	Leipzig, Germany. 5 Leith, Scotland Leithmeritz, Bohemia, Austria. Le Kremlin-Bicétre, France Le Locle, Switzerland Le Mans, France Lemberg, Austria. Lemery, Philippine Islands Lemery, Philippine Islands Lena, Spain Lena, Spain Lennep, Germany Lens, France Lentini, Italy, (com.) Leoben (in Styria), Austria Leosschütz, Germany Légane, Haiti, (com.)	89,850 80,489 15,500 13,018 12,722 69,361 06,113 11,150 10,000 12,239 13,123 31,812 22,904 11,504 13,081 30,000	Lipari, Italy, (com.) 1 Lipetsk, Russia 2 Lipine, Germany 1 Lippstadt, Germany 1 Lisbon, Portugal* 43 Lisburn, Ireland 1 Lisieux, France 1 Lisle (Lille), France 21 Lissa, Germany 1 Lissone, Italy, (com.) 1 Litherland, England 1 Littin, Russia 1 Littleborough, England 1 Liverpool, England 7 Liversedge, England 1 Liversedge, England 2 Liversedge, England 1 Liversedge, England 1 Liversedge, England 2 Liversedge, England 1 Liversedge, England 1 Liversedge, England 2 Liversedge, England 1 Liversedge, England 1 Liversedge, England 2 Liversedge, England 3 Liversedge, England 3	5,616 5,000 8,190 6,360 5,359 12,172 16,239 17,156 10,580 14,795 10,200 16,421 14,658 1,100 0,469
Kuchawan, India Kuching (Sarawak), Sarawak*, Borneo Kuke*, Nigeria Kuku-khoto, China Kulasekarapatnam, India. Kuldja, Eastern Turkestan Kulm, Germany Kulmbach, Germany Kulmbach (Germany Kumsee (Culmsee), Germany Kumsee, Gumsee), Germany Kumse, Japan Kumamoto, Japan Kumamoto, Japan Kumasi, Gold Coast Kumbakonum (Comba-	12,000 10,749 30,000 50,000 80,000 11,718 10,731 10,612 25,000 11,000 61,233 18,853	Landeshut, Germany Landeshut, Germany Landshut, Germany Landshut, Germany Landshut, Germany Landshut, Germany Landshut, Germany Langendreer, Germany Landshuther, Germany Landshuther, Germany Landshuther, Germany Landshuther, Germany Landshuther, Germany Landshuther, Germany Langendreer, Germany Langend	17,767 13,571 39,339 25,137 16,459 11,318 18,514 26,390 12,663 14,832 25,828 25,828 34,454 15,288 80,000	Leipzig, Germany. 5 Leith, Scotland Leithmeritz, Bohemia, Austria Le Kremlin-Bicétre, France Le Locle, Switzerland Le Mans, France Lemberg, Austria 2 Lemery, Philippine Islands Le Moule, Guadeloupe. Lena, Spain Lennep, Germany. Lens, France. Lentini, Italy, (com.) Leoben (in Styria), Austria Leobschütz, Germany Leógane, Haiti, (com.)	89,850 80,489 15,500 13,018 12,722 69,361 10,000 12,233 31,812 22,904 11,504 13,081 13,081 13,081 30,000 63,263	Lipari, Italy, (com.) 1 Lipetsk, Russia 2 Lipitsk, Russia 2 Lipitsk, Germany 1 Lippstadt, Germany 1 Lisbon, Portugal* 43 Lisburn, Ireland 1 Lisieux, France 1 Lisle (Lille), France 21 Lissa, Germany 1 Lissone, Italy, (com.) 1 Litherland, England 1 Littleborough, England 1 Liverpool, England 74 Liversedge, England 74 Liversedge, England 74 Liversedge, England 1 Liveny, Russia 2 Llandudno, Wales 1 Lanelly (in Carmarthen)	5,616 5,000 8,190 6,360 5,359 12,172 16,239 17,807 17,156 10,580 14,795 10,200 11,697 16,421 14,658 11,100 0,469
Kuchawan, India Kuchawan, India Kuching (Sarawak), Sarawak)* Sarawak)* Kuku-khoto, China Kulasekarapatnam, India Kuldja, Eastern Turkestan Kulm, Germany Kulmbach, Germany Kulmbach, Germany Kulmsee (Culmsee), Germany Kum (Kom), Persia Kumagaya, Japan Kumasi, Gold Coast Kumbakonum (Combaconum), India	12,000 10,749 30,000 50,000 80,000 11,718 10,731 10,612 25,000 11,000 61,233 18,853	Landeshut, Germany Landeshut, Germany Landshut, Germany Landshut, Germany Landshut, Germany Landshut, Germany Landshut, Germany Langaran, Philippine Is- langaran, Philippine Is- langenbielau, Germany Langenselta, Germany Langerfeld, Germany Langerfeld, Germany Langerfeld, Germany Langerd, Spain Laoag, Philippine Islands Laon, France La Paz, Bolivia* La Pledad, Mexico	17,767 13,571 39,339 25,137 16,459 11,318 18,514 26,390 12,663 14,832 25,828 25,564 34,454 15,288 80,000 10,664	Leipzig, Germany. 5 Leith, Scotland. Leithmeritz, Bohemia, Austria. Leithmeritz, Bohemia, Austria. Leithmeritz, Bohemia, Austria. Le Kremlin-Bicetre, France Le Locle, Switzerland. Le Mans, France. Lemberg, Austria. 2 Lemery, Philippine Islands Le Moule, Guadeloupe. Lena, Spain Lennep, Germany. Lens, France. Lentini, Italy, (com.) Leoben (in Styria), Austria Leobschütz, Germany Léogane, Haiti, (com.) León, Mexic. León, Nicaragua.	89,850 80,489 15,500 13,018 12,722 69,361 10,613 11,150 10,000 12,239 13,123 31,812 22,904 11,504 13,081 30,000 63,263 62,600	Lipari, Italy, (com.) 1 Lipetsk, Russia 2 Lipitsk, Russia 2 Lipitse, Germany 1 Lippstadt, Germany 1 Lisbon, Portugal* 43 Lisburn, Ireland 1 Lisieux, France 1 Lisle (Lille), France 1 Lissone, Italy, (com.) 1 Litherland, England 1 Littin, Russia 1 Littleborough, England 1 Littleborough, England 7 Liverpool, England 7 Liversedge, England 1 Livny, Russia 2 Llandudno, Wales 1 Llanelly (in Carmarthen), Wales 1	5,616 5,000 8,190 6,360 5,359 12,172 16,239 17,807 17,156 10,580 14,795 10,200 11,697 16,421 14,658 11,100 0,469 2,071
Kuchawan, India Kuching (Sarawak), Sarawak*, Borneo Kuke*, Nigeria Kuku-khoto, China Kulasekarapatnam, India Kuldja, Eastern Turkestan Kulm, Germany Kulmbach, Germany Kulmsee (Culmsee), Germany Kum (Kom), Persia Kumagaya, Japan Kumamoto, Japan Kumasi, Gold Coast Kumbakonum (Combaconum), India Kumpta, India	12,000 10,749 30,000 50,000 80,000 11,718 10,731 10,612 25,000 11,000 61,233 18,853 59,673 10,818	Landeshur, Germany Landeshur, Germany Landsberg (on the Warthe), Germany Landshur, Germany Landshur, Germany Landskrona, Sweden Langaran, Philippine Islands Langenbielau, Germany Langenberer, Germany Langensalza, Germany Langerfeld, Germany Langrihr, Germany Langrihr, Germany Langrihr, Germany Langred, Spain Laoag, Philippine Islands Laon, France La Paz, Bolivia* La Piedad, Mexico La Plata, Argentina 12	17,767 13,571 39,339 25,137 16,459 11,318 18,514 26,390 12,663 14,832 25,828 25,564 34,454 15,288 80,000 10,604 06,382	Leipzig, Germany. 5 Leith, Scotland Leithmeritz, Bohemia, Austria Le Kremlin-Bicétre, France Le Locle, Switzerland Le Mans, France Lemberg, Austria. 2 Lemery, Philippine Islands Le Moule, Guadeloupe. Lena, Spain Lennep, Germany. Lens, France. Lentini, Italy, (com.) Leoben (in Styria), Austria Leobschütz, Germany León, Mexico León, Mexico León, Nicaragua León, Philippine Islands	89,850 80,489 15,500 13,018 12,722 69,361 106,113 11,150 10,000 12,239 13,123 31,812 22,904 13,081 30,000 63,263 63,263 62,600 10,277	Lipari, Italy, (com.) 1 Lipptsk, Russia 2 Lipitsk, Russia 2 Lipitsk, Russia 2 Lipitsk, Germany 1 Lipptstadt, Germany 1 Lisbon, Portugal* 43 Lisbon, Portugal* 43 Lisbon, Ireland 1 Lisieux, France 1 Lisle (Lille), France 21 Lissa, Germany 1 Lissone, Italy, (com.) 1 Litherland, England 1 Littin, Russia 1 Littleborough, England 1 Liversedge, England 7 Liversedge, England 1 Livy, Russia 2 Llandudon, Wales 1 Llanelly (in Carmarthen), Wales 3 Llanes, Spain 2	5,616 5,000 8,190 6,360 5,359 12,172 6,239 17,807 17,156 10,580 14,795 10,200 11,697 16,421 14,658 11,100 0,469 2,071 1,986
Kuchawan, India. Kuchawan, India. Kuching (Sarawak), Sarawak*, Borneo Kukea, Nigeria. Kuku-khoto, China. Kulasekarapatnam, India. Kuldja, Eastern Turkestan Kulm, Germany. Kulmbach, Germany. Kulmbach, Germany. Kulmsee (Culmsee), Germany. Kum (Kom), Persia. Kumagaya, Japan. Kumamoto, Japan. Kumanoto, Japan.	12,000 10,749 30,000 50,000 80,000 19,898 14,000 11,718 10,731 10,612 25,000 11,000 61,233 18,853 59,673 10,818 15,888	Landeshut, Germany Landeshut, Germany Landshut, Germany Landshut, Germany Landshut, Germany Landshut, Germany Landshut, Germany Langendreer, Germany Langendreer, Germany Langendreer, Germany Langerdled, Germany Langerfeld, Germany Langruhr, Germany Langruhr, Germany Langred, Spain Laoag, Philippine Islands Laon, France La Paz, Bolivia* La Piedad, Mexico La Plata, Argentina Lar, Persia	17,767 13,571 39,339 25,137 16,459 11,318 18,514 26,390 12,663 14,832 25,828 25,828 80,000 10,604 10,604 10,604 10,608	Leipzig, Germany. 5 Leith, Scotland. Leithmeritz, Bohemia, Austria Le Kremlin-Bicétre, France Le Locle, Switzerland. Le Mans, France Lemberg, Austria. 2 Lemberg, Austria. 2 Lemery, Philippine Islands Le Moule, Guadeloupe. Lena, Spain. Lennep, Germany. Lens, France. Lentini, Italy, (com.). Leoben (in Styria), Austria Leobschütz, Germany. Léogane, Haiti, (com.). León, Nicaragua. León, Philippine Islands León, Philippine Islands León, Philippine Islands	89,850 80,489 15,500 13,018 12,722 69,361 06,113 11,150 12,239 13,123 31,812 22,904 11,504 13,081 30,000 63,263 62,600 10,277 17,022	Lipari, Italy, (com.) 1 Lipari, Kussia 2 Lipitsk, Russia 2 Lipitsk, Russia 2 Lipitsk, Germany 1 Lippstadt, Germany 1 Lisbon, Portugal* 43 Lisbon, Fortugal* 43 Lisburn, Ireland 1 Lisieux, France 1 Lisse (Lille), France 1 Lisse, Germany 1 Lissone, Italy, (com.) 1 Litherland, England 1 Littin, Russia 1 Littleborough, England 1 Liverpool, England 7 Liverpool, England 1 Liverpool 2 Lianelly (in Carmarthen), Wales 1 Lanelly (in Carmarthen), Wales 1 Loanda (Saint Paul de	5,616 5,000 8,190 6,360 6,360 6,359 2,172 6,239 7,156 10,580 14,795 10,200 11,697 14,658 11,100 0,469 2,071 1,986
Kuchawan, India Kuching (Sarawak), Sarawak*, Borneo Kukea, Nigeria Kuku-khoto, China Kulasekarapatnam, India Kuldia, Eastern Turkestan Kulm, Germany Kulmbach, Germany Kulmbach, Germany Kulmsee (Culmsee), Germany Kumsee (Culmsee), Germany Kum (Kom), Persia Kumagaya, Japan Kumagaya, Japan Kumasi, Gold Coast Kumbakonum (Combaconum), India Kumpta, India Kung-chang, China	12,000 10,749 30,000 50,000 19,898 14,000 11,718 10,731 10,612 25,000 11,000 61,233 18,853 10,818 15,888 50,000	Landeshuf, Germany Landeshuf, Germany Landeshuf, Germany Landshut, Germany Landshut, Germany Landshut, Germany Landskrona, Sweden Langaran, Philippine Islands Langenbielau, Germany Langenderer, Germany Langerfeld, Germany Langerfeld, Germany Langerfeld, Germany Langerfeld, Germany Langerfeld, Germany Langer, Spain Laoag, Philippine Islands Laon, France La Paz, Bolivia* La Piedad, Mexico La Plata, Argentina Lar, Persia Larache, Morocco	17,767 13,571 39,339 25,137 16,459 11,318 18,514 26,390 12,663 14,454 15,288 80,000 10,604 06,382 12,000 12,250	Leipzig, Germany. 5 Leith, Scotland Leithmeritz, Bohemia, Austria. Le Kremlin-Bicétre, France Le Locle, Switzerland Le Mans, France Lemberg, Austria. 2 Lemery, Philippine Islands Le Moule, Guadeloupe Lena, Spain Lennep, Germany. Lens, France Lentini, Italy, (com.). Leoben (in Styria), Austria Leobschütz, Germany Leogane, Haiti, (com.) León, Mexico León, Micaragua León, Philippine Islands León, Philippine Islands León, Philippine Islands León, Spain León, Spain	89,850 80,489 15,500 13,018 12,722 69,361 06,113 11,150 10,000 12,239 13,123 31,812 22,904 11,504 13,081 30,000 63,263 62,600 10,277 17,022 19,760	Lipari, Italy, (com.) 1 Lipptsk, Russia 2 Lipitsk, Russia 2 Lipitsk, Russia 2 Lipitsk, Germany 1 Lipptstadt, Germany 1 Lisbon, Portugal* 43 Lisburn, Ireland 1 Lisieux, France 1 Lisieux, France 1 Liseux, France 1 Lissa, Germany 1 Litsex, Germany 1 Litherland, England 1 Littin, Russia 1 Littleborough, England 1 Liversedge, England	5,616 5,000 8,190 6,360 6,369 12,172 16,239 17,807 17,156 10,580 14,795 10,200 11,697 14,658 11,100 0,469 2,071 1,986 0,156
Kuchawan, India Kuching (Sarawak), Sarawak*, Borneo Kuke*, Nigeria Kuku-khoto, China Kulasekarapatnam, India. Kuldja, Eastern Turkestan Kulm, Germany Kulmbach, Germany Kulmbach (Germany Kumsee (Culmsee), Germany Kum (Kom), Persia Kumagaya, Japan Kumamoto, Japan Kumamoto, Japan Kumasi, Gold Coast Kumbakonum (Combaconum), India Kungt, India Kunch, India Kungt, Russia Kungur, Russia	12,000 10,749 30,000 50,000 19,898 14,000 11,718 10,731 10,612 25,000 11,000 61,233 18,853 59,673 10,818 15,888 50,000 15,500	Landeshut, Germany Landeshut, Germany Landshut, Germany Landshut, Germany Landshut, Germany Landshut, Germany Landshut, Germany Langendseu, Germany Langendreer, Germany Langendreer, Germany Langerield, Germany Langerield, Germany Langerield, Germany Langerield, Germany Langred, Spain Laoag, Philippine Islands Laon, France La Paz, Bolivia* La Piedad, Mexico La Plata, Argentina Lar, Persia Larache, Morocco Lari, Italy, (com.)	17,767 13,571 39,339 25,137 16,459 11,318 18,514 26,390 12,663 14,832 25,828 25,564 34,454 15,288 80,000 10,604 06,382 12,268	Leipzig, Germany. 5 Leith, Scotland Leithmeritz, Bohemia, Austria Le Kremlin-Bicétre, France Le Locle, Switzerland Le Mans, France Lemery, Philippine Islands Le Moule, Guadeloupe Lena, Spain Lennep, Germany Lens, France Lentini, Italy, (com.) Leoben (in Styria), Austria Leobschütz, Germany León, Mexico León, Nicaragua León, Nicaragua León, Spain León, Spain Leon, Spain Leon, Spain Leonforte, Italy, (com.) Le Onforte, Italy, (com.) Le Conforte, Italy, (com.)	89,850 80,489 15,500 13,018 12,722 69,361 106,113 11,150 10,000 12,239 13,123 31,812 22,904 11,504 13,504 13,000 63,263 62,600 10,277 17,022 19,760 19,760 13,255	Lipari, Italy, (com.) 1 Lipari, Italy, (com.) 2 Lipitsk, Russia 2 Lipitsk, Russia 2 Lipitsk, Germany 1 Lippstadt, Germany 1 Lisbon, Portugal* 43 Lisburn, Ireland 1 Lisieux, France 1 Lisieux, France 1 Lissene, Italy, (com.) 1 Litherland, England 1 Litterland, England 1 Littleborough, England 1 Liverpool, England 74 Liversedge, England 74 Liversedge, England 1 Liveny, Russia 2 Llandudno, Wales 1 Llanelly (in Carmarthen), Wales 3 Llanes, Spain 2 Loanda (Saint Paul de Loanda), Angola* 20 Löbau, Germany 1	5,616 5,000 8,190 6,360 6,360 6,359 2,172 16,239 17,807 17,156 10,200 11,697 6,421 4,658 11,100 0,469 2,071 1,986 0,156 1,261
Kuchawan, India Kuching (Sarawak), Sarawak*, Borneo Kukea, Nigeria Kuku-khoto, China Kulasekarapatnam, India Kuldia, Eastern Turkestan Kuldo, Germany Kulmbach, Germany Kulmbach, Germany Kulmbach, Germany Kumagaya, Japan Kumagaya, Japan Kumagaya, Japan Kumasi, Gold Coast Kumbakonum (Combaconum), India Kumpta, India Kung-chang, China Kung-cha	12,000 10,749 30,000 80,000 19,898 14,000 11,718 10,731 10,612 25,000 11,000 61,233 18,853 59,673 10,818 15,888 50,000 15,500	Landeshut, Germany. Landeshut, Germany. Landeshut, Germany. Landshut, Germany. Landshut, Germany. Landshut, Germany. Landshut, Germany. Langenshut, Germany. Langenbielau, Germany. Langensleau, Germany. Langensled, Germany. Langerfeld, Germany. Langerfeld, Germany. Langerfeld, Germany. Langerd, Spain. Laoag, Philippine Islands. Laon, France La Paz, Bolivia* La Piedad, Mexico. La Plata, Argentina. Lar, Persia Larache, Morocco. Lari, Italy, (com.) Larissa, Greece.	17,767 13,571 39,339 25,137 16,459 11,318 18,514 26,390 12,663 14,832 25,828 25,564 34,454 15,288 80,000 10,604 10,604 10,604 10,604 12,250 12,268 18,001	Leipzig, Germany. 5 Leith, Scotland Leithmeritz, Bohemia, Austria. Le Kremlin-Bicétre, France Le Locle, Switzerland Le Mans, France Lemberg, Austria. Lemery, Philippine Islands Lemery, Philippine Islands Lena, Spain Lennep, Germany Lens, France. Lentini, Italy, (com.) Leoben (in Styria), Austria Leobschitz, Germany Léogane, Haiti, (com.) León, Mexico León, Micaragua León, Philippine Islands León, Philippine Islands Leon, Spain Leonforte, Italy, (com.) Le Perreux, France Le Petreux, France	89,850 80,489 15,500 13,018 12,722 69,361 06,113 11,150 10,000 12,239 13,123 31,812 22,904 11,504 13,081 30,000 63,263 62,600 10,277 17,022 19,760 13,255 14,929	Lipari, Italy, (com.) 1 Lipptsk, Russia 2 Lipitsk, Russia 2 Lipitsk, Russia 2 Lipitse, Germany 1 Lippstadt, Germany 1 Lisbon, Portugal* 43 Lisburn, Ireland 1 Lisieux, France 1 Lisle (Lille), France 21 Lisse, Germany 1 Lissone, Italy, (com.) 1 Litherland, England 1 Littin, Russia 1 Littleborough, England 1 Liverpool, England 1 Liverpool, England 1 Liversedge, England 2 Liversedge, England 3 Liversedge, England 2 Liversedge, England 3 Liversedge, England 4 Liv	5,616 5,000 8,190 6,360 6,360 65,359 2,172 6,239 17,807 17,156 0,580 14,795 10,200 11,697 6,421 4,658 1,100 0,469 2,071 1,986 0,156 1,261 1,261
Kuchawan, India Kuching (Sarawak), Sarawak*, Borneo Kuke*, Nigeria Kuku-khoto, China Kulasekarapatnam, India Kuldja, Eastern Turkestan Kulm, Germany Kulmbach, Germany Kulmbach (Germany Kum (Kom), Persia Kumagaya, Japan Kumagaya, Japan Kumamoto, Japan Kumamoto, Japan Kumasi, Gold Coast Kumbakonum (Combaconum), India Kumpta, India Kung-tanag, China Kungur, Russia Kungur, Russia Kun-gary	12,000 10,749 30,000 80,000 19,898 14,000 11,718 10,731 10,612 25,000 11,000 61,233 18,853 59,673 10,818 55,888 50,000 15,500	Landeshut, Germany Landeshut, Germany Landshut, Germany Landshut, Germany Landshut, Germany Landshut, Germany Landshut, Germany Langaran, Philippine Islands Langenbielau, Germany Langendreer, Germany Langerfeld, Germany Langerfeld, Germany Langerfeld, Germany Langerfeld, Germany Langerdel, Spain Laoag, Philippine Islands Laon, France La Paz, Bolivia* La Pietad, Mexico La Plata, Argentina Larache, Morocco Larisa, Greece Larkana, India	17,767 13,571 39,339 25,137 16,459 11,318 18,514 26,390 12,663 14,832 25,828 25,564 34,454 15,288 80,000 10,604 06,382 12,000 12,250 12,268 12,268 18,001 14,543	Leipag, Germany. 5 Leith, Scotland Leithmeritz, Bohemia, Austria Le Kremlin-Bicétre, France Le Locle, Switzerland Le Mans, France Lemberg, Austria. 2 Lemery, Philippine Islands Le Moule, Guadeloupe. Lena, Spain Lennep, Germany. Lens, France. Lentini, Italy, (com.) Leoben (in Styria), Austria Leobschittz, Germany León, Mexico León, Nicaragua. León, Philippine Islands León, Spain Leofore, Italy, (com.) Le Perreux, France Le Peti-Quevilly, France Le Peti-Quevilly, France Le Peti-Quevilly, France Le Peti-Quevilly, France Le Pre-Saint - Gervais	89,850 80,489 15,500 13,018 12,722 69,361 00,000 12,239 13,123 31,812 22,904 11,504 13,081 30,000 63,263 62,600 10,277 17,022 19,760 13,255 14,929	Lipari, Italy, (com.) 1 Lipptsk, Russia 2 Lipitsk, Russia 2 Lipitsk, Russia 2 Lipitsk, Germany 1 Lipptstadt, Germany 1 Lisbon, Portugal* 43 Lisbon, Portugal* 43 Lisbon, Ireland 1 Lisieux, France 1 Lisieux, France 1 Lisieux, France 1 Lissene, Italy, (com.) 1 Litherland, England 1 Litten, Russia 1 Littleborough, England 1 Liversedge, England 1 Liversedge, England 1 Livy, Russia 2 Llandulo, Wales 1 Llanelly (in Carmarthen), Wales 1 Llanelly (in Carmarthen), Wales 2 Loanda (Saint Paul de Loanda), Angola* 2 Löbau, Germany 1 Löboc, Philippine Islands 1 Lodelinsart, Belrium 1	5,616 5,000 8,190 6,360 6,360 6,359 2,172 66,239 17,807 17,156 10,580 10,580 10,580 14,658 1,100 0,469 2,071 1,986 0,156 1,261 0,005
Kuchawan, India Kuchawan, India Kuching (Sarawak), Sarawak*, Borneo Kuke*, Nigeria Kuku-khoto, China Kulasekarapatnam, India Kuldja, Eastern Turkestan Kulm, Germany Kulmbach, Germany Kulmbach, Germany Kumsee (Culmsee), Germany Kum (Kom), Persia Kumagaya, Japan Kumamoto, Japan Kumamoto, Japan Kumamoto, Japan Kumamoto, Japan Kumani, Gold Coast Kumbakonum (Combaconum), India Kunch, India Kunch, India Kung-chang, China Kungur, Russia Kun-Szent Marton, Hungary Kuopio, Russia	12,000 10,749 30,000 80,000 19,898 14,000 11,718 10,612 25,000 11,000 61,233 18,853 59,673 10,818 15,888 15,888 15,800 10,769 16,000	Landeshuk, Germany Landeshuk, Germany Landshuk, Germany Landshuk, Germany Landshuk, Germany Landshuk, Germany Landshuk, Germany Langensel, Philippine Islands Langenbielau, Germany Langenbielau, Germany Langenselza, Germany Langerdeld, Germany Langruk, Germany Langruk, Spain Laoag, Philippine Islands Laon, France La Paza, Bolivia* La Piedad, Mexico La Plata, Argentina Lar, Persia Larache, Morocco Lari, Italy, (com.) Larissa, Greece Larkana, India La Rochelle, France	17,767 13,571 39,339 25,137 16,459 11,318 18,514 26,390 12,663 12,663 25,828 25,828 25,828 25,828 25,828 25,828 21,000 12,000 12,000 12,000 12,268 18,001 14,543 36,371	Leipzig, Germany. 5 Leith, Scotland Leithmeritz, Bohemia, Austria. Le Kremlin-Bicétre, France Le Locle, Switzerland Le Mans, France Lemberg, Austria. Lemery, Philippine Islands Lemery, Philippine Islands Lemery, Philippine Islands Lena, Spain Lennep, Germany. Lens, France. Lentini, Italy, (com.). Leoben (in Styria), Austria Leobschitz, Germany Léon, Mexico León, Micaragua León, Philippine Islands León, Philippine Islands Leon, Philippine Isl	89,850 80,489 15,500 13,018 12,722 69,361 06,113 11,150 10,000 12,239 13,123 31,812 22,904 11,504 13,081 30,000 63,263 62,600 10,277 17,022 19,760 13,255 14,929	Lipari, Italy, (com.) 1 Lipptsk, Russia 2 Lipptsk, Russia 2 Lipptsk, Russia 2 Lipptsdt, Germany 1 Lisbon, Portugal* 43 Lisbon, Portugal* 43 Lisbon, Ireland 1 Lisieux, France 1 Lisle (Lille), France 21 Lissa, Germany 1 Lissa, Germany 1 Litsone, Italy, (com.) 1 Litherland, England 1 Littin, Russia 1 Littleborough, England 1 Liverpool, England 2 Liverpool, England 2 Liverpool, England 2 Liverpool, England 2 Liverpool, England 1 Liverpool, England 2 Liverpool, England 3 Liverpool, England 4	5,616 5,000 8,190 6,360 6,360 5,359 2,172 16,239 17,807 17,156 10,580 14,795 10,580 14,658 11,100 0,469 2,071 1,986 0,156 1,261 0,756 0,005 0,005
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Lomza, Russia	27,900	Macerata Italy (com)	35,000 32,040	Manissa (Magnésia), Tur-	40.000	Matsuyama, Japan	44,166
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Londonderry, Ireland	40,799	Macoris, Dominican Re-	,	Manly, Australia	10.687	Mau. India	17 606
Longbenton, England	12,443	Madakasisa Tadia	15,000	Mannargudi, India	20,449	Maubán, Philippine Islands	s12,021
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(com.)	17,577	Madhubani, India	17,802	England	11,015	Mayaguez, Porto Rico	16,591
Loin Philippine Islands	18,114	Madrid Spain* 50	18,000 04 270	Mansura, Egypt	40,279	Mayavaram, India	24,276
Loos, France	10,640	Madura, India	34.130	Manzanares, Spain	11 229	Mayen Germany	45,183
Lorca, Spain	72,795	Maebashi, Japan	45,183	Manzanillo, Cuba	15,819	Mayence (Mainz), Ger-	17,741
Lorient, France	49,039	Maesteg, Wales	24,977	Maousta, Turkey	12,000	many	110,634
Los Angeles Chile	19,410	lands	15 841	Mapuça, Portuguese In-	10 722	Mayohamba Powe	10,020
Losoncz, Hungary	12,939	Magdeburg, Germany 2	79,629	Maracaibo, Venezuela	50,000	Mazagan, Morocco	33 600
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guese East Africa*	10,000	Mahrisch-Ostrau, Austria 3	36,754	Marash, Turkey in Asia	65,000	Mazzarino, Italy, (com.)	15,920
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Lower Behington, Eng-	10,002	Mahuya, India	17.549	Marchienne (-au-Pont)	21,000	Mechlin, Belgium	50 142
land	11,401	Maidenhead, England 1	15,219	Belgium	21,635	Medan, Sumatra	12,100
Lowestoft, England	33,777	Maidstone, England	35,475	Marcianise, Italy, (com.)	13,465	Medea, Algeria	15,154
Lowicz, Kussia	13,500	Mainpuri India	10 000	Mardine Turkey in Asia	27,000	Medellin, Colombia	71,004
China	15,000	Mainz (Mayence), Ger-	17,000	Mareg-en-Baraul, France	11.520	lands.	10.578
Luarca, Spain	23,225	many1	10,634	Margam, Wales	14,713	Medicina, Italy, (com.)	13,632
Lubao, Philippine Islands	19,063	Maisons-Alfort, France 1	13,409	Margao, Portuguese India	12,126	Medina, Turkey in Asia	40,000
Lubeck, Germany	65.870	Makarsca, Austria, (com.) 1	12,200	Margelan Russia in Asia	36 592	Medinet-el-Favoum	11,101
Lubny, Russia	11,800	Makó, Hungary 3	34,918	Marianao, Cuba	10,634	Egypt	37,320
Lucban, Philippine Islands	10,227	Malabúyoc, Philippine Is-	14 701	Mariano di Napoli, Italy,	44.024	Meerane, Germany	25,470
Lucca, Italy, (com.)	21 020	Malacca Straite Settle-	11,/81	Maria Theresional (Sza-	11,934	Megalokastron (Candia)	18,129
Lucera Italy (com.)	16.922	ments2	20,000	badka). Hungary	94.610	Crete	25,185
Lucerne, Switzerland	39,339	Malaga, Spain13	36.365	Maribojoc, Philippine Is-		Mehallet - el - Kebir (Me-	
Luckenwalde, Germany	23,476	Malakoff, France	16,630	lands.	11,830	halla), Egypt	33,547
Lucknow, India	37 301	lands 1	4.550	Mariendorf Germany	15 423	Mehndawal. India	10 143
Ludhiana, India	48,694	Malatia, Turkey in Asia. 6	1,000	Marienwerder, Germany.	12,983	Meiningen, Germany	17,131
Ludwigsburg, Germany	24,926	Maldegem, Belgium 1	0,437	Marigliano, Italy, (com.)_	12,502	Meissen, Germany	33,884
Ludwigshafen (on the	02 201	Malegaon, India 1	9,054	Mariupol Russia	53 1001	rocco (Mequinez), Mo-	56 000
Tugano Switzerland	13.251	Malinao, Philippine Islands 1	2,437	Markirch, Germany.	11,778	Meklong, Siam	10,000
Lugansk, Russia	60,300	Malithog, Philippine Is-	!	Maronas, Uruguay	10,000	Melbourne, Australia,* 10	03,893
Luganskaia, Russia	14,700	lands	1,034	Maros-Vasarhely, Hungary	25,517	(with suburbs) 60	00.208
Lugo, Italy, (com.)	35 726	Mallanwan India	1.158	Marsala, Italy, (com.)	65,451	Melfi, Italy, (com.)	13.744
Lugos Hungary	19.818	Malmö, Sweden 9	2,338	Marsciano, Italy, (com.)	14,520	Melig, Egypt	10,529
Lukow, Russia	11,500	Malolos, Philippine Islands 1	2,575	Marseille, France5	50,616	Melilla, Morocco	15,000
Lund, Sweden	20,423	Malvern, Australia 1	6.513	Marten Germany	11.615	Melo, Uruguay	12.355
Lüneburg, Germany	10.530	Malwan, India	9,626	Martina Franca, Italy,	1	Melun, France	13,908
Lunéville, France	24,266	Manacor, Spain 12	2,548	(com.)	25,007	Melur, India	10,100
Lung-chau (Lung-chow),	15 000	Managua, Nicaragua* 3	5,000	Martos, Spain, (com.)	17,000 D	Memmingen Germany	41,470 12,362
China	15 000	Manana, Turkey in Asia 2.	1,000	Maryport, England	11,418 N	Menado, Celebes	10,033
Lurgan Ireland	2,135	lands	6,793	Masampo, Chosen (Korea)	11,022	Menaldumadeel, Nether-	
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many1	4,983	Manapia, Philippine 15-	0.123	Masaya, Nicaragua	22.000	Mendoza, Argentina	50,000
Luton, England 7	3.560	Manbájao, Phil ppine Is-	1	Mascara, Algeria	24,254 N	Menfi, Italy, (com.)1	1,189
Lutzk. Russia 3	1,800	lands14	1,446	Mashena, Bornu	10,000 1	Aengo, Uganda 3	2,444
Luxemburg, Luxemburg* 2	0,848	Manchester, England 183	1,333 I	Maskat (Muscat), Oman 2	30,625 N	Menin. Belgium 1	8.636
Luxor, Egypt	3 483 1	Mandasor, India	0,936 N	Massafra, Italy, (com.)	1,104 N	Ientone (Menton), France 1	3,029
Lyck, Germany 1	3,428 N	Mandaue, Philippine Is-	n I	Massa Marittma, Italy,	N 112	Acres la Egypt 2	2,316
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Middlesbrough, England. 104,767	Mondovi, Italy, (com.) 19,	93 Mukden, Manchuria250	0,000 Namangan, Russia in Asia 73,	2/8
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Migulinskaia, Russia 28,146	Monopoli, Italy, (com.) 24,	01 Mülheim - on - Ruhr, Ger-	Nanao, Japan 13,	,100
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Militello, Italy, (com.) 11,232	Montagnana, Italy, (com.) 11,	76 Munich (München), Ger-	Nandurbar, India 10,	,922
Millau, France 18,482	Montaione, Italy, (com.) 10,	90 many596	6,467 Nankin Nanking), China 267,	,000
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Nazareth, Turkey in Asia. 1 Nazza, Egypt	15,000	Niederrad, Germany	10 431	Oakengates England	11 7//	O B !! !	
Nazza, Egypt1	12,418	Niederschönhausen Ger-	10,431	Ose Philippine Taland.	11.744	Oruro, Bolivia	. 22,000
Neath, Wales	7.586	many	15 502	Oas, Fillippine Islands	11,393	Orvieto, Italy, (com.)	. 19,148
Neckarau, Germany	15.116	Vienburg-on-the-Weser	15,592	O Posso Time	38,011	Osaka, Japan1	,226,647
Negapatam, India	57,190	Germany	10.204	Oberhausen Comment	19,200	Oschatz, Germany	. 10,818
Neheim, Germany	10.949	Nigde, Turkey in Asia	11 700	Oberlautenedorf Austria	12 100	Oschersieben, Germany	. 12,931
Neisse, Germany	25,938	Nihtaur, India	11 740	Obernanitz Cormani	13,100	Osn, Russia in Asia	40,782
Neiva, Colombia	21.852	Niigata, Japan	61 616	Oberschöneweide Cor	12,290	Osmio, Italy, (com.)	. 18,808
Nellikuppam, India 1	13,137	Nijar, Spain, (com.)	12,497	many Ger	21 360	Osmanabad, India	. 10,007
Nellore, India	32,040	Nijmegen, Netherlands.	,	Oberstein, Germany	10 701	Occett England	14 079
Nelson, England	39,479	(com.)	54,803	Obovan, Russia	11 900	Ostashkof Russia	11,000
Nepelen-Baerl, Germany_ 1	12,841	Nikolaief, Russia	103,500	Odawara, Japan	15,000	Ostend Belgium	42 207
Netrakona, India	11,402	Nikolaistad (Vasa), Russia	22,443	Odenburg (Sopron), Hun-	,	Osterfeld, Germany	26.527
Neubrandenburg, Germany	12,348	Nikolayevsk, Russia	17,128	gary	33,932	Osternburg, Germany	11.779
Neuchatel, Switzerland 2	23,741	Nikolayevskaya, Russia	31,100	Odenkirchen, Germany	20,060	Osterode, Germany	14.364
Neudori, Germany 2	25,480	Nikolskoye, Russia in Asia	53,806	Odense, Denmark	42,237	Ostrog. Russia	17,000
Neugersdort, Germany 1	11,595	Nimach, India	21,588	Odeondo, Nigeria	40,000	Ostrogozhsk, Russia	23,000
Neunaldensleben, Ger-		Nimburg, Austria	10,181	Odessa, Russia	520,100	Ostrolenka, Russia	14,067
Many Austria	10,774	Nimes, France	80,437	Odoorn, Netherlands,		Ostrow, Russia	14,100
Neunaus, Austria	10,125	Ningpo, China	350,000	(com.)	10,212	Ostrowo, Germany	14,770
Neunausei (Ersek-Ujvar),	12 205	Niort, France	23,329	Oels, Germany	11,717	Ostuni, Italy, (com.)	23,354
Mouilly Engage	13,383	Nipani, India	11,023	Oelsnitz (near Chemnitz),		Osuna, Spain	18,100
Neu-Isenburg Cormons	11 427	Nippes, Germany	41,185	Germany	16,213	Oswaldtwistle, England	15,714
Neukölln (Rivdorf) Co-	1,43/	Nisch (Nisco) Comis	24.047	Common Char Zwickau),	12 050	Oswestry, England	10,000
many 22	7 280	Nichanur Parcia	20,000	Offenbach Command	13,951	Otaru, Japan	91,281
Neuminster Germany	34 555	Nissa (Nisch) Samia	24.04	Offenburg Germany	16,383	Otton Philipping Island	10,784
Neunkirchen Austria	11 890	Niuchwang Manchuria	61,000	Ogaki Japan	21 762	Oten Tapan	14,404
Neunkirchen Germany	31 530	Nivelles Relgium	12,607	Oghomosho Vorula	80,000	Ottaiano Italy (com.)	13 419
Neuruppin, Germany	18,720	Nizamabad, India	12.871	Ogmore and Carw Wales	26 741	Oudtshooth Union	13,418
Neusalz, Germany 1	3.474	Nizhni-Novgorod, Russia	108,800	Ohligs, Germany	27.830	South Africa	11.000
Neu Sandec (Neusandez).		Nizhni-Tagilsk, Russia	45,179	Ohra, Germany	11,029	Ougrée, Belgium	17,088
Austria 2	25,514	Nobioka, Japan	13,580	Oita, Japan	29.547	Oullins, France	10.284
Neusatz, Hungary 3	3,590	Nocera Inferiore, Italy,		Okayama, Japan	93,421	Ouro Preto, Brazil	59,249
Neusohl (Beszterczebánya),		(com.)	22,368	Okazaki, Japan.	24,824	Ovada, Italy, (com.)	10,197
Hungary 1	10,776	Noci, Italy, (com.)	12,660	Old Becse (Becse), Hun-		Ovar, Portugal	10,596
Neuss, Germany 3	7,224	Nogent-sur-Marne, France	11,721	gary	18,865	Oviédo, Spain	55,088
Neustadt (in Silesia),		Noisy-le-Sec, France	10,836	Oldbury, England	32,232	Oxford, England	53,050
. Cermany 1	18,856	Nola, Italy, (com.)	14,900	Oldenburg, Germany	30,242	Oyo, Yoruba	40,000
Neustadt (on the Hardt),		Nordhausen Germany	32,564	Oldham, England 1	47,483	Ozorkow, Russia	11,532
Germany1	9,288	Normanton, England	15,032	Olhao, Portugal	10,000	Paarl. Union of S. Africa.	11,000
Neustettin, Germany 1	1,833	Norrkoping Sweden	40,074	Olinda, Brazil	10,000	Pabianice, Kussia	38,950
Neustrelltz, Germany 1	2 700	Northampton, England	17 401	Omdumen Angle Form	22,243	Pachine Ttaly (com	12 405
Neutitschein, Austria	3,780	Northcote, Austrana	14,491	Omdurman, Anglo-Egyp-	EO E44	Pachuca Maria	20,000
Neu IIIm Germany 1	2 305	Northwich England	18 151	Omek Siberia	20 422	Padang Sumatra*	01 440
Neuwerk Germany	2,395	Norwich England	121 478	Omuda Japan	45 681	Paddington Australia	24 150
Neuwied Germany	0 104	Noshiro Tanan	10,200	Ongole, India	12.864	Paderborn, Germany	29.441
Nevel Russia 1	1,500	Noto Italy (com.)	31.625	Onomichi, Japan	30,367	Padiham, England	13,635
Nevers, France2	7.030	Nottingham, England	259,907	Onstwedde, Netherlands,		Padua, Italy, (com.)	96,230
New Amsterdam, British	.,,,,,,,	Nova Goa (Panjim), Por-	,	(com.)	13,687	Pagani, Italy, (com.)	14,931
Guiana 1	0,000	tuguese India	10,000	Onteniente, Spain	11,500	Paignton, England	11,241
Newark, England 1	6,408	Novara (in Piedmont),		Oosterhout, Netherlands,		Paisley, Scotland	84,477
Newburn, England 1	7,155	Italy, (com.)	54,571	(com.)	12,563	Pakhoi, China	20,000
Newbury. England 1	2,107	Novelda, Spain	11,388	Ooststellingwerf, Nether-		Pakokku, India	19,456
Newcastle, Australia 1	2,816	Novgorod, Russia	27,156	lands, (com.)	10,414	Paks, Hungary	12,234
Newcastle-under-Lyme,		Novibazar Servia	15,434	Octacamund, India	11 200	Polakelly India	10,014
England 2	0,201	Novi Ligure, Italy	20,059	Opico, Salvador	12 225	Polomoottoh India	30 545
Newcastle - upon - Tyne,	((00	Novocherkask, Russia	33,030	Oporto Portugal	04 000	Palánka Hungary	13 190
England 26	0,003	Neve Coorgiovek (in	20,000	Oppeln Germany	33 907	Palanpur India	17 790
mole) Contemple*	0.000	Chereon) Russia	12 000	Opsterland, Netherlands	33,501	Palazzolo Acreide, Italy,	_,,,,,
Newmarket England	0.482	Novograd Volvnsk Russia	19,780	(com.)	16,199	(com.)	15,138
Newport (Isle of Wight)	0, 202	Novogrudok, Russia	12,800	Oramienburg, Germany	12,949	Palembang, Sumatra	61,000
England 1	1.154	Novomoskovsk, Russia	20,000	Oran, Algeria1	23,086	Palencia, Spain	15,610
Newport (Monmouth-	,	Novorossisk, Russia	61,188	Orange, France	10,303	Palermo, Italy, (com.)	341,088
shire), England 8	3,691	Novo Usensk, Russia	16,000	Orás, Philippine Islands	10,429	Palghat, India	44,177
Newry, Ireland1	1,956	Nowanuggur (Nowanagar)	,	Orebro, Sweden	32,075	Pali, India	12,673
Newton Abbot, England 1	3,711	India	53,844	Orel, Russia	91,000	Palitana, India	12,800
Newton - in - Makerfield,		Nowawes, Germany	23,758	Orenburg, Russia	16 240	Palma Spain	67 554
Nazareth, Turkey in Asia Nazza, Egypt 1 Neath, Wales 1 Neckarau, Germany 1 Negapatam, India 1 Nelsen, Germany 1 Neisse, Germany 1 Nelson, England 1 Nelson, England 1 Nelson, England 1 Nepelen-Baerl, Germany 1 Netrakona, India 1 Neubrandenburg, Germany 1 Neuchâtel, Switzerland 2 Neudorf, Germany 2 Neugersdorf, Germany 1 Neuhaus, Austria 1 Neuhaus, Austria 1 Neuhausel (Ersek-Ujvår), Hungary 1 Neuhausel (Ersek-Ujvår), Hungary 1 Neukölln (Rixdorf), Germany 1 Neusalz, Germany 1 Neusatettin, Germany 1 Neusatettin, Germany 1 Neustettin, Germany 1 Neustettin, Germany 1 Neutra (Nyifra), Hungary 1 Neutra (Nyifra),	8,451	Nowgaung, India	11,507	Orense, Spain	16,000	Palma, Spain	07,554
Newtown, Australia 2	6,427	Nueva Caceres, Philip-	17 043	Oribuela Spain	35 236	Italy (com)	14 212
New Windsor, England 1	2,681	pine Islands	17,943	Orinuela, Spalli	37 804	Palmella Portugal	11 479
Nezhin, Russia 3	4,100	ivueva San Salvador, Sal-	10 000	Orléans France	72.096	Palmerston North New	22,270
Ngan-king, China 4	0,000	Nuevitas Cubs	12 000	Ormesby, England	14.582	Zealand	10,991
Ngaundere, Kamerun 30	1 000	Nuka (Nukha) Puccia	41.815	Ormoc. Philippine Islands	16,126	Palmi, Italy, (com.)	14,035
Niagusta, Greece	7 204	Nuneaton England	37 073	Oroquieta, Philippine Is-		Palmira, Colombia	14,312
Nica France	2 040	Nuremberg (Niirnberg)	-1,515	lands	15,156	Palni, India	17,168
Nicosia Cypros*	5 052	Germany (Ituributg),	33,142	Orosháza, Hungary	21,400	Palo, Philippine Islands	17,480
Nicosia Italy (com)	6.441	Nusle Austria	30,8741	Orsha, Russia	13,169	Palo del Colle, Italy, (com.)	12 504
Nictherov Brazil	0.000	Nyangwe, Belgian Kongo	10,000	Orskaia, Russia	15,000	Palompón, Philippine Is-	
Nieder Hermedorf Ger-	,,,,,,	Nyiregyháza, Hungary	38 198	Orta Nova, Italy, (com.).	11,521	lands	10,199
many 11	1.378	Nykiobing, Denmark.	11,010	Ortigueira, Spain	20,193	Palwal, India	12,830
New Windsor, England. 1 Nezhin, Russia 3 Ngan-king, China 4 Ngaundere, Kamerun 3 Niagusta, Greece 1 Nicastro, Italy, (com.) 1 Nico, France 14 Nicosia, Cyprus* 14 Nicosia, Italy, (com.) 1 Nictheroy, Brazil 5 Nieder Hermsdorf, Germany 1 Niederplanitz, Germany 1 Niederplanitz, Germany 1	2,36311	Nyköping, Sweden	10,416	Ortona, Italy, (com.)	16,081	Pamidi, India	10,657

Domiero France	10 440	Pelotas Brazil	45 000	Pirano, Austria	15,400	Porto Novo, Dahomey*	19,10
Pamplona Spain	30,350	Pembroke Ireland	29 260	Piriatin, Russia	10,400	Porto Novo, India	13,71
Danama Danama*	37,500	Pembroke Wales	15 673	Pirmasens Germany	38,463	Porto Prava, Cape Verde	
Panama, Fanama'	14 261	Peneng (Georgetown)	10,070	Pirna Germany	19 525	Islands*	21.50
Panay, Philippine Islands.	14,301	Ctualta Cattlementa	04.096	Discipus India	14.110	Porto Tolle Italy (com)	10.83
Pancsova, Hungary	20,808	Straits Settlements	94,000	Pirojpur, India	10 727	Port Said Fount	40 80
Pandan, Philippine Islands	12,162	Penarth, Wales	15,488	Pirot, Servia	10,737	Dont	221 1
Panderma, Turkey in Asia	20,000	Penedo, Brazil	16,000	Pisa, Italy, (com.)	05,232	Portsmouth, England	231,14
Pandharpur, India	32,405	Penge, England	22,330	Pisano (Mitterburg), Aus-		Posarevatz (Passarowitz),	
Panihati, India	11,178	Penonomé, Panama	10,897	tria	17,500	Servia	13,61
Paninat Ladia	26 914	Pensa (Penza), Russia	97.500	Pisek, Austria	16.500	Posen, Germany	156,69
Panigui Philippine Islands	12 082	Penzance England	13.478	Pistoja (Pistoja), Italy,	,	Pöszneck, Germany	12,43
Paniqui, Innippine Islands	12,702	Peremuel (Przemuel)	20,210	(com)	67.5021	Potenza, Italy, (com.)	16.67
Panjim (Nova Goa), 101-	10.000	Austria	E4 079	Ditacti (Ditacca) Pou-	01,002	Potosi Rolivia	25 00
tuguese India	10,000	Description Description	12 100	Fitesti (Fitesce), Rott-	16 100	Pototan Philippine Islands	20.00
Pankow, Germany	45,105	Peresiavi, Russia	12,100	mania	12,220	Detedent Componer	62 2
Panna, India	11,346	Pergamos (Bergama), Tur-		Pithapuram, India	13,220	Potsdam, Germany	1 1 2 7 4
Panruti, India	15,206	key in Asia	25,000	Piura, Peru	12,000	Povoa de Varzim, Portugal	12,70
Panteg, England	10,098	Perigueux, France	33,548	Plainpalais, Switzerland	30,016	Pozoblanco, Spain	12,75
Pantin, France	36.359	Perivakulam, India	17,960	Plauen, Germany1	[21,272]	Pozorubio, Philippine Is-	
Panyel India	10.152	Perm, Russia	62,000	Plevna, Bulgaria	23,049	lands	11,01
Pagay Philippine Islands	12 743	Pernambuco (Recife).	,	Plock, Russia	30,784	Pozsony (Pressburg), Hun-	
Pacting (Pacting) China 1	20,000	Brazil	250,000	Ployesti (Ployeschi) Rou-	,	gary	78.22
Pauling (Lau-ting), China i	20,000	Dames Progie	14,000	mania	56 504	Pozzuoli Italy (com)	28 16
Papa, Hungary	20,130	Permau, Russia	20 510	Di	12 020	Dradura a Sassa Italy	20,10
Para (Belem), Brazil2	50,000	Perpignan, France	39,510	Plymouth, England	.12,030	riadulo e Sasso, Italy,	44 42
Paraguary, Paraguay	10,000	Perth, Australia	34,000	rnom Penn, French Indo-	CO 000	Com.)	11,13
Parahiba (Parahyba), Bra-		Perth, Australia (with		China	02,225	Frague, Austria	223,14
zil	29,000	suburbs)	111,400	Podgoritza, Montenegro	10,053	Prahran, Australia	25,48
Paramagudi, India	16,134	Perth, Scotland	35,851	Podgórze, Austria	22,322	Prang, India	10,23
Paramaribo, Dutch		Perugia, Italy, (com.)	65,805	Point de Galla (Galla).		Prato, Italy, (com.)	56,70
Guiana*	34,450	Pesaro, Italy, (com.)	27,397	Cevlon	40,187	Prenzlau, Germany	21.38
Paraná Argentina	35.857	Pescia, Italy, (com.)	17,882	Pointe-à-Pître, Guade-	,	Prerau. Austria	20.66
Paranaguá Brazil	15,000	Pescina Italy (com)	10 310	Joune W Indies	16.500	Pressburg (Pozsony)	,_
Darahina Carmana	10,600	Dechamar India	07 035	Poitiare France	11 242	Hungari	78 22
Parchim, Germany	10,000	Details and England	22 570	Dela America	E0 001	Proston (in Longoton)	10,22
Pardubitz, Austria	20,419	reterborough, England	12,510	Pola, Austria	11 105	Francisco,	147 00
Parenzo, Austria	12,400	Peternead, Scotland	13,013	Polistena, Italy, (com.)	11,195	England	117,00
Paris, France*2,8	888,110	Peterhot, Russia	11,300	Pollokshaws, Scotland	12,932	Prestwich, England	17,19
Parlakimedi, India	17,336	Petersham, Australia	20,407	Polnisch-Ostran, Austria	22,892	Pretoria, Transvaal, Union	
Parma, Italy, (com.)	51,910	Pétionville, Haiti, (com.)_	2,500	Polotsk, Russia	31,100	of South Africa*	48,60
Parnahyba, Brazil	15,000	Petlad, India	15,282	Poltava, Russia	83,856	Pribram, Austria	13,57
Parola, India	13,468	Petralia Sottana, Italy,		Pomigliano d'Arco, Italy,		Priego de Córdova, Spain	16.90
Parral Chile	10,000	(com)	10.506	(com)	11.187	Prilip (Perlene) Servia	21 78
Parral (Hidalgo del) Mey-	20,000	Petrograd (St Petersburg)	,	Ponce Porto Rico	35 027	Priluki Russia	31 50
ico	14 749	Puccia 2	, 018 506	Pondicherry French India	47 503	Princenhage Metherlande	01,50
Parraments Australia	12 520	Potrokoff (Piotrookf)	010,090	Ponoviscah Duccio	12 800	(com)	10 0
Parramatta, Austrana	12,520	Petrokon (Flottooki),	41 200	Ponevyesh, Russia	10,500	Com.)	10,07
Partanna, Italy, (com.)	14,122	Russia	41,200	Ponnani, India	10,502	Prisrend, Servia	21,24
Partick, Scotland	66,848	Petropaviosk, Russia in		Ponta Delgada, Azores	17,675	Pristina, Servia	18,17
Partinico, Italy, (com.)	21,656	Asia	43,393	PontàMousson, France-	13,543	Proddatur, India	14,37
Parvatipuram, India	17,308	Petropolis, Brazil	39,700	Pontassieve, Italy, (com.)	13,892	Prome, India	27,37
Pasco (Cerro de Pasco),		Petrovsk, Russia	18,157	Pontecorvo, Italy, (com.)_	11,339	Proskurof, Russia	40.61
Peru	15,000	Petrozavodsk, Russia	15,420	Pontedera, Italy, (com.)	12,499	Prossnitz, Austria	31 16
Pasewalk Germany	10.916	Petuna (Boduno), Man-		Pontefract England	15.040	Prussian Stargard Ger-	,
Pásig Philippine Islands	11,278	churia	29,500	Pontevedra, Spain	24 222	many	10.41
Paso Molino Uruguay	14 405	Pfersee Cermany	10 028	Pontianak West Romeo	20,084	Promyel (Peremyel)	10,41
Passarowitz (Passarovatz)	14,470	Pforgheim Germany	60 082	Ponticelli Itely (com)	11 105	Austria	E4 07
Lassalowitz (Losalevatz),	12 612	Phoguesa India	14 100	Double Italy, (com.)	14,100	Dalas Daras	34,07
Dervia	13,013	Di la l' Talla	12,100	Fontremon, Italy, (com.).	14,409	Pskoi, Russia	30,00
rassau, Germany	20,983	r naioui, india	15,924	Fontypridd, Wales	43,211	ruchau, China	35,10
Pasto, Colombia	27,760	Philippeville, Algeria,		Poole, England	38,885	Pudsey, England	14,02
Patan (Pattan, Puttun),	04	(com.)	27,137	Poona, India	58,856	Pudukkottai, India	20,34
India	31,402	Philippopolis, Bulgaria	47,981	Poonamallee, India	15,323	Puebla, Mexico	101,21
Patan (Putun), Nepal	30,000	Piacenza, Italy, (com.)	38,542	Pirano, Austria. Piriatin, Russia. Pirinasens, Germany. Pirina, Germany. Piron, Servia. Pisa, Italy, (com.) Pisaano (Mitterburg), Austria. Pisek, Austria. Pisek, Austria. Pisek, Austria. Pisek, Austria. Pisek, Germany. Pithapuram, India. Pithapuram, India. Pithapuram, India. Piura, Peru. Plainpalais, Switzerland. Plauen, Germany. Plaven, Germany. Plevna, Bulgaria. Plock, Russia. Ployesti (Ployeschi), Roumania. Ployesti (Ployeschi), Roumania. Polosti, Russia. Ponom Penh, French Indochina. Podgoritza, Montenegro. Polita, Musia. Pomalia (Galla), Ccylon. Ponce, Porto Rico Pontale, Russia. Pontale, Russia. Pontale, Russia. Pontale, Russia. Pontale, Russia. Pontecorvo, Italy, (com.) Pontecorvo,	20,000	Pueblo Nuevo del Mar.	
Paternò, Italy, (com.)	28,923	Piatigorsk, Russia	31,800	Poperinghe, Belgium	11,307	Spain	11.25
Patiala, India	53,545	Piatra, Roumania	18,795	Porbandar, India	24,620	Puentearéas, Spain	13.49
Patna, India	136.153	Piazza Armerina, Italy.		Pordenone, Italy, (com.)	16 265	Puente Genil Spain	12 05
Patras, Greece	37,724	(com.)	32.070	Portadown Treland	11 727	Puerto Cabello Venezuela	14,00
Pattan (Patan Puttun)	,	Pietermaritzburg Natal	0-,070	Portalegra Portugal	11 602	Pronto do Conta Maria	14,00
India	31 402	Union of South Africa	30 503	Port Arthur Manchuria	00 554	Chair	00 10
Patti Italy (com)	10 525	Piotroporgia Italy (com)	11 962	Post an Driver Traiting	00,004	Spain	20,12
Patti, Italy, (com.)	10,333	Pietraperzia, Italy, (com.)	11,002	Port au Prince, Haitir	100,000	Puerto Plata, Dominican	
Paturages, Beigium	11,053	Pietrasanta, Italy, (com.)	19,808	Port Blair, Andaman Is-		Republic	10,00
Pau, France	37,149	Pilao Arcado, Brazil	10,000	lands	19,000	Puerto Principe (Cama-	
Paungde, India	11,105	Pilibhit, India	33,490	Port de Paix, Haiti	10,000	guev), Cuba	73.28
Pavia, Italy, (com.)	39,898	Pilsen, Austria	80,343	Port Elizabeth, Natal.		Puerto Real, Spain	11.9
Pavlograd, Russia	40,484	Pinamufigajan, Philippine		Union of South Africa	30.539	Puket Siam	170 6
Pavullo (in Emilia), Italy,		Islands	11,435	Port Glasgow Scotland	17 740	Pultack Puccio	17 5
(com)	12 204	Pinar del Rio Cuba	10,658	Portici Italy (com)	17,000	Dunalsha Dhata	17,5
Payeandú Umiguay	22,000	Pind Dadan Khan India	13 770	Portland England	17,009	Funakna, Bnutan	00,0
Pagga Armerina Italy	J. 2,000	Pinerolo Italy (com)	10 225	Port Louis Mand	17,011	runata, Bonvia	10,0
(com)	22 070	Disgrapho Austria	17,343	Dort Louis, Mauritius*	30,000	Puno, Peru	10,0
Dear (Fig. S.: 1) T	32,070	Pinguente, Austria	17,150	Fort Mahon, Spain	18,000	Punta Arenas, Chile	12,1
Pecs (Funikirchen), Hun-		Ping-yang, China	18,000	Port Melbourne, Australia	13,471	Punta Arenas, Costa Rica	14.7
_ gary	49,822	Ping yang, Chosen (Korea)	75,000	Porto Alegre, Brazil	130,000	Puri, India	40 3
Pecska, Hungary	17,484	Pinsk, Russia	37,000	Porto Calvo, Brazil	25,000	Puriscal Costa Rica	110
Peddapuram, India	12,609	Piombino, Italy, (com.)	19,660	Porto Empedocle, Italy	,	Purnea India	14.0
Pegli, Italy, (com.)	10,560	Piotrokof (Petrokoff)		(com)	12 670	Durulio India	17,0
Pegu. India	14,132	Russia (Lettokoli),	37,000	Porticit, Italy, (com.) Portland, England. Port Louis, Mauritius* Port Mahon, Spain Port Melbourne, Australia Porto Alegre, Brazil Porto Calvo, Brazil Porto Empedocle, Italy, (com.) Port of Spain, Trinidad* Portogruaro, Italy, (com.) Porto Maggiore (in Emilia) Italy (com.)	12,079	Daniel Toda	17,2
Peine Cermany	16 667	Piove di Socco Italia (com	111 271	Dort of Spain, Irinidad*	39,790	rurwa, India	10,2
Paking Chine*	750,007	Direcicaba Progit	25 400	Dorto Maro, Italy, (com.)	12,394	ruspok-Ladany, Hungary	10,8
Polone Falls (some	130,000	Filacicaba, Blazi	25,400	Porto Maggiore (in Emilia)		Puteaux, France	32,2
Pelago, Italy, (com.)	12,004	Piraeus, Greece	73,579	Italy (com.)	21,114	Putignano, Italy, (com.)	14.36

				or rain WORLD			85
Püttlingen, Germany. Puttun (Patan, Pattan), India. Pyattun (Patan, Pattan), India. Pyattyiorsk, Russia Pyatigorsk, Russia Pyrimana, India. Pyrgos, Greece Qaliub, Egypt. Qena (Keneh), Egypt Qorlin, Egypt. Qorlin, Egypt. Quaregnon, Belgium Quellus, Brazil. Queretaro, Mexico. Quellinburg, Germany. Queluz, Brazil. Queretaro, Mexico. Quietta, India. Queaaltenango, Guatemala Queaaltengue, Salvador. Quillota, Chile. Quilon, India. Quilota, Chile. Quilon, India. Quimper, France. Quistello, Italy, (com.). Quito, Ecuador* Quixeramobim (Campo Mayor), Brazil. Qus, Egypt. Raba (Győr), Hungary. Rabat, Morocco. Racalmuto, Italy (com.). Rabat, Morocco. Racalmuto, Italy (com.). Radebeuf, Germany. Radebeuf, Germany. Radebeuf, Germany. Radeborg, Germany. Radeborg, Germany. Radevormwald, Germany. Radeborg, Germany. Radewormwald, Germany. Radewormwald, Germany. Radeborg, Germany. Radeborg, Germany. Radespir, India. Radomsk, Russia. Radomsk, Russia. Radomsk, Russia. Radomysl, Russia. Radomy	16,757	Ratibor, Germany	38,424	4 Rio Grande do Sul. Brazi	1 40 00	O Pueil France	10.424
India	31 402	Ratingen, Germany	13,143	Riom, France	10,62	7 Rufisque, Senegal	12,43
Putvi, Russia	11,700	Germany	52 624	Rionero, Italy, (com.)	10,86	Rugby, England	21,758
Pyatigorsk, Russia	18,657	Ratlam (Rutlam), India	36,321	Ripley, England	. 22,500 11.848	Rumburg Austria	10,300
Pyrgos, Greece	14,388	Ratnagiri, India	16,094	Risca, England	14,149	Rummelsburg. Ger-	10,505
Qaliub, Egypt	16,798	Ravenna, Italy, (com.)	15,330 71 581	Riverde Gian France	22,052	many	51,492
Qanayat, Egypt	10,358	Ravensburg, Germany	15,594	Rivera. Uruguay	10,000	Runcorn, England	17,353
Qena (Keneh), Egypt	20,069	Rawalpindi, India	86,483	Rixdorf (New Kölln), Ger-	-	Rusera. India	10,056
Ouaregnon, Belgium	17 013	Rawitsch Germany	10,448	many	237,289	Rushden, England	13,354
Quedlinburg, Germany	27,223	Rawmarsh, England	17,185	Asia (Kizan), Turkey in	10.000	Rustak, Afghanistan	10,000
Queluz, Brazil	10,000	Rawtenstall, England	30,516	Roanne, France	36,697	Rute. Spain	30,255
Ouetta, India	33,002	Rayadrug, India	10,488	Rocha, Uruguay	12,200	Rutherglen, Scotland	24,411
Quezaltenango, Guatemala	24,000	Reading, England	75 198	Rochefort France	91,428	Rutlam (Ratlam), India	36,321
Quezaltepeque, Salvador.	14,000	Recanati, Italy, (com.)	15,163	Rochelle, La, France	36,371	(com)	26 305
Quillota, Chile	11,449	Recklinghausen, Germany	53,701	Rochester (in Kent), Eng-		Ryazan, Russia	41,483
Quimper, France	19.516	Redditch, England	15 463	Rochesur-Von La France	31,384	Rybinsk, Russia	31,500
Quistello, Italy, (com.)	13,151	Redfern, Australia	24,275	Rockhampton, Australia	15,451	Ryde. England	10,608
Quito, Ecuador*	60,000	Redondela, Spain	10,900	Rödelheim, Germany	10,067	Rylsk, Russia	13,200
Mayor), Brazil	13.155	Reducto, Uruguay	16,814	Rodesto Turkey	15,502	Ryton, England	12,948
Qus, Egypt	14,355	Regalbuto, Italy, (com.)	12,948	Roermond, Netherlands.	40,000	Saalfeld, Germany	23,688
Rabat Morocca	44,300	Regello, Italy, (com.)	13,566	(com.)	13,858	Saarbrücken, Germany 1	05,089
Racalmuto, Italy (com.)	14.298	Germany (Katisbon),	52.624	Röhlinghausen Cormo	10,570	Saarburg, (in Alsace-Lor-	10.010
Radautz, Austria	16,568	Reggio di Calabria, Italy,	-2,021	Rohtak, India	20,323	Saargemiind, Germany	10,019
Raddiffe, England	26,084	(com.)	43,162	Rokko, Formosa, Japan	19,036	Saarlouis, Germany	15,364
Radebeul, Germany	13,413	(com)	70 410	Roman, Roumania	16,525	Saaz, Austria	17,127
Radevormwald, Germany	11,541	Regla, Cuba	1,363	Romblón, Philippine Is-	17,022	Sabará, Brazil	28,263
Radhanpur, India	11,879	Reichenback (in Prussian	10.00	lands	10,093	Sablon, Germany	10,720
Radomsk Russia	49,200	Reichenbach (in Savony)	16,371	Rome, Italy*	42,125	Sacaba, Bolivia	18,000
Radomysl, Russia	15,804	Germany	29,685	Romny, Russia	33,264	Safed, Turkey in Asia	12,603
Radzionkau, Germany	10,272	Reichenberg, Austria	36,350	Ronda, Spain	22,692	Safi (Saffi), Morocco	24,347
Rattadali, Italy, (com.)	11,743	Reigate, England	28,502	Ronsdorf, Germany	15,365	Saga, Japan	36,051
Ragusa, Italy, (com.)	37.543	land1	1.593	Roosendaal (Rozendaal)	17,197	Sagan Germany	10,000
Rai Bareli, India	15,880 1	Reims (Rheims), France11	15,178	Netherlands, (com.)	16,716	Sagar (Sangor), India 4	12,330
Raichur, India	22,165	Reinickendorf, Germany. 3	34,299	Rorschach, Switzerland	12,707	Sagua la Grande, Cuba 1	12,890
Rainur, India	32 118 1	Rembang, Java	4.500	Rosario, Argentina 2	19,677	Saharanpur, India 6	06,234
Rajahmundry, India 3	6,404 I	Remiremont, France 1	0,548	Rosdzin, Germany	12,419	Sahatwar, India	10,784
Rajapalaiyam, India 2	25,360 I	Remscheid, Germany 7	2,159	Rosendael, France	12,016	Sahuayo, Mexico 1	0,580
Kajgarh (in Kajputana), India	1 008	Rendshurg, Germany 1	7.314	Rosetta Egypt	15,969	Saida (Sidon), Turkey in	8 000
Rajkot, India	6,151 F	Renfrew, Scotland 1	2,565	Rosignano Marittimo.	20,010	Saidapet, India	4,254
Raj-Mandgaon, India 1	1,094 F	Rennes, France7	9,372	Italy, (com.)	10,210	Saigon, French Indo-China19	0,000
Kajpur (in Bengal), India 1	0,713 F	Requent Spain	6 300	Rosalini Italy (com.)	19,000	Saint Albans, England 1	8,133
Ramiibanpur, India	0,264 F	Reschitza, Hungary 1	6,150	Rossano, Italy, (com.)	12,974	Saint-Amand, France 1 Saint-Brieuc, France 2	3.041
Ramleh, Egypt1	9.724 F	Resht, Persia 4	2,000	Rossberg, Germany	20,021	Saint-Chamond, France. 1	4,430
Rammacca, Italy (com.) 1	0,860 F	Resiczabánya, Hungary 1	5,000 1	Rostock, Germany	65,383	Saint-Claude, France 1	0,980
Rampagar (United Prov-	4,540 K	Reus, Spain 2	5.196	sia_	14.000	Saint Denis, (Seine), France 7	1,759
inces). India1	0,882 R	Reutlingen, Germany 2	9,763 I	Rostof-on-the-Don, Russia1	72,275	land*3	0,000
Rampur (United Prov-	4 21 C	Reval, Russia 9	9,000 I	Roszlau, Germany	11,354	Saint-Dié, France 2	2,136
Inces), India 7	4,316 R	Rewan, India	7.295	Rothwell England (14.277	Saint-Dizier, France 1	9.025
Ramsbottom, England 1	5,146 R	heden, Netherlands,	İ	Rotterdam, Netherlands,	2,277	Saint-Etienne, France14	8,656
Ramsgate, England 2	9,603	(com.)1	8,432	(com.)4	17,989	Saint Gallen, Switzerland. 3	7,869
Ranchi, India	5,970 R	theims (Reims), France 11.	5,178 H	Rotthausen, Germany	25,757	France 1	7 288
Randazzo, Italy, (com.) 1	0,478 R	theydt, Germany 4	3,999 F	Rouen, France1	24,987	Saint-Gilles, Belgium 6	3,140
Randers, Denmark 2	2,970 R	hodes, Island of Rhodes. 1	0,000 1	Roulers, Belgium	25,026	aint Helens, England 9	6,551
Randwick, Australia 1	5,793 R	hondda, Wales15	2,781 F	Roux, Belgium	10,062	Saint Hélier, Jersey Island 3.	2,000
anenburg, Russia 1.	3,700 R	ibeirão Preto, Brazil 20	0.000	Roveredo, Austria	12,350	Belgium3	1,865
Rangpur, India	5,960 R	ibera, Italy, (com.)1	1,141 F	Rovigo, Italy, (com.)1	2,224 5	aint-Junien, France 1	1,400
Ranibennur, India 1	4,851 R	ichmond, Australia 38	8,559 F	Rovno, Russia	39,100 5	Saint Kilda, Australia 2.	5,449
Raniganj, India	5,841 R	ichmond, England 33	3,221 F	Royal Leamington Spa	57,000	Saint Louis, Réunion Is-	2,101
asgrad Bulgaria	1.512 K	many 1	2,440	(Leamington), England. 2	6,888	land	2,900
astatt, Germany 1	5,196 R	iesa, Germany 15	5,287 F	Royton, England	17,069 S	Saint Louis, Senegal* 25	5,000
tastenburg, Germany 1	1,945 R	iesi, Italy, (com.) 1	7,163 F	Rozendaal (Roosendaal),	6 716	aint Louis du Nord,	6 100
tatangarh, India	1,744 R	iga Russia 370	0.100 R	Rozsahegy, Hungary	2,249 S	Saint-Malo, France 10	0,647
Rath, India	1,424 R	imini, Italy, (com.) 50),862 R	Rshev, Russia 2	4,000 8	aint-Mandé, France 1	7,714
athenow, Germany 24	1,891 R	iobamba, Ecuador 20	0,000 R	Ruda, Germany	4,163 S	aint Marc, Haiti 20	U,00 0
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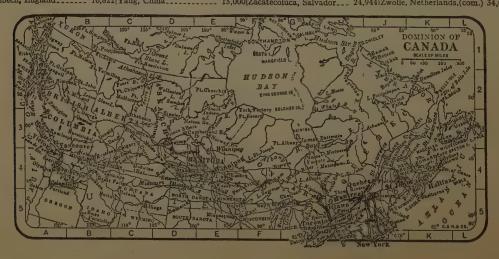
	Saint-Nazaire France	38 265	Sandakan, British North Borneo* Sandec (Neu), Austria Sandel, India San Dona di Piave, Italy, (com.) San Fabian, Philippine Islands San Felipe, Chile San Felipe, Chile San Felipe, Chile San Fernando, Chile San Fernando (in Cebu), Philippine Islands San Fernando (in La Union,) Philippine Islands San Fernando (in Pamanas)		San Pier d'Arena, Italy,		Saronno, Italy, (com.)	12,300
	Saint-Nicolas, Belgium	34.774	Borneo*	10,000	(com.)	42,421	Sarria, Spain	11,959
	Saint-Omer, France	20,993	Sandec (Neu), Austria	19,350	San Remo, Italy, (com.)	22,987	Sarzana, Italy, (com.)	12,631
	Saint-Ouen, France	41,904	Sandila, India	16,843	San Roque, Spain	22,645	Sasaram, India	23,644
	Saint Paul de Loanda		San Dona di Piave, Italy,	40.024	Sans, Spain	19,110	Sasebo, Japan	93,051
	(Loanda), Angola*	20,156	(com.)	13,231	San Salvador, Salvador	33,140	Sassari, Italy, (com.)	43,118
	Saint-Paul, Reunion 18-	20.000	San rabian, rumppine is-	10.022	San Sebastian Spain	52 260	Satara India	26 022
	Saint Peterport (Saint	20,000	San Feline Chile	14 445	San Severino, Italy, (com.)	13.699	Satoralia-Uihely, Hungary	19.940
	Pierre). Channel Islands	18.300	San Feliu de Guixols, Spain	11.338	San Severo. Italy. (com.)	32,202	Saumur, France	16,392
	Saint Petersburg (Petro-		San Fernando, Chile	10,460	Sansing, China	13,000	Savigliano (in Cuneo)	
	grad), Russia*2,	018,596	San Fernando (in Cebu),		Santa Ana, Salvador	54,912	Italy, (com.)	17,600
	Saint-Pierre, Réunion Is-	20.000	Philippine Islands	15,451	Santa Barbara (in Hollo),	45 440	Savona, Italy, (com.)	50,169
	land	30,000	San Fernando (in La		Philippine Islands	15,149	Soufati Italy (com)	10,328
	Saint-Pierre Quilbignon,	10.042	lande	16 005	sinén) Philippine Is-		Scandiano Italy (com.)	10 807
	Soint Dalton Austria	21 805	lands San Fernando (in Pam-	10,070	lands	10.367	Scarborough, England	37.201
	Saint-Quentin France	55.571	panga)PhilippineIslands	13,556	Santa Clara, Cuba	16,705	Schabatz (Shabats), Servia	12,201
	Saint-Servan, France	12,242	San Fernando, Spain	28,300	Santa Cruz, Bolivia	21,000	Schaerbeek, Belgium	82,480
	Saint Thomas (Charlotte		San Fratello, Italy, (com.)	10,424	Santa Cruz (in La Laguna),	40 845	Schaffhausen, Switzerland	18,101
	Amalie), Danish West		Sangamner, India	13,801	Philippine Islands	12,747	Scharley, Germany	11,009
	Indies. Saint Thomas' Mount, India. Saint Trond Releium	8,248	San Fernando (in Pam- panga)PhilippineIslands San Fernando, Spain San Fratello, Italy, (com.) Sangamner, India Sangerhausen, Germany San Gil (Saniil). Colombia	10,040	duque), Philippine Is-		Schässburg (Segesvár), Hungary Schemnitz, Hungary	11 597
	Saint Thomas' Mount,	45 574	San Gimignano, Italy,	10,000	lands	16 350	Schemnitz Hungary	15 185
	Saint-Trond, Belgium	15,5/1	(com.)	10,365	Santa Cruz del Quiché,	20,000	Schiédam, Netherlands,	10,100
	Sakai Japan	61 103	San Giovanni a Teduzzio		Gustamala	12,000	(com.)	32,024
	Sakata, Japan	23.513	Italy, (com.)	22,504	Santa Cruz de Tenerife, Canary Islands		Schiltigheim, Germany	16,761
	Salaam (Dar-es), German		San Giovanni Fiore, Italy,	40 500	Canary Islands	63,004	Schleswig, Germany	19,908
	Fast Africa*	22,215		12,500	Santa Fe, Argentina	50,000	Schlettstadt, Germany	10,604
	Salaga, Gold Coast	10,000	San Giovanni Persiceto, Italy, (com.)	17,087	Santa María (in Bulacán),	10 701	Schmalkalden, Germany Schmölln, Germany	11 2/5
	Salama, Guatemala	11.000	C. O' ' TO ' I					
	Salamanca, Mexico	20,820	Italy, (com.)	10,313	Santa María (in Ilocos Sur), Philippine Islands Santa Maria Capua Vetere.	10,082	Schönberg (Mährisch-).	20,120
	Salamia Fount	10 280	San Giuseppe Vesuviano,		Santa Maria Capua Vetere,		Austria	11,650
	Salas, Spain	17,200	Italy, (com.)	10,647	Italy, (com.)	21,520	Schönbruch, Germany	26,546
	Sale, England	15,044	Sangli, India	16,829	Santander, Spain	65,046	Schönebeck, Germany	18,310
	Salé, Morocco	15,550	San Ioaquin Philippine	11,032	Sant Antino, Italy, (com.)	10,279	Schöneberg, Germany1	72,823
	Salaga, Gold Coast Salama, Guatemala Salamanca, Mexico Salamanca, Spain Salami, Egypt Salas, Spain Sale, England Sale, Morocco Salemi, Italy, (com.) Salemi, Italy, (com.) Salemo, Italy, (com.)	70,621	Islands	14.333	ena Italy (com.)	10.191	Schoterland Netherlands	14,079
	Salemi, Italy, (com.)	18,039	San José, Costa Rica*	33,000	Santarem. Brazil	16.500	(com.)	15 208
	Salerno, Italy, (com.)	43,089	San José, Uruguay	12,297	Santa Rosa, Honduras	10,888	Schramberg, Germany	11.267
	Fooland Lancasine),	31 357	San Giovanni Rotondo, Italy, (com.) San Giuseppe Vesuviano, Italy, (com.) Sangli, India Sangrur, India San Joaquin, Philippine Islands San José, Costa Rica* San José, Uruguay San José de Cucuta, Colombia	40.000	Santeramo in Colle, Italy,		Schwabach, Germany	11,195
	Salgó-Tarján, Hungary	13,600	San José, Uruguay San José de Cucuta, Co- lombia San Juan, Argentina Sna Juan, Philippine Is- lands	10,000	(com.)	14,641	Schweidnitz, Germany	31,329
	Salisbury England	21,21/	Sna Juan, Argentina	13,202	Santiago, Chilet Land	03,115	Schweinfurt, Germany	22,194
- 1	Salon, France	14,050	lands	11.223	public Dominican Re-	12 000	Schwenningen Cormons	20,438
	Saloniki (Salonica), Greece	74,000	San Juan, Argentina. Sna Juan, Philippine Islands. San Juan, Porto Rico* San Juan Bautista Mexico	48,716	Santiago, Panama	13.081	Schwerin Germany	42 510
	Salsomaggiore, Italy, (com.)	12,450	San Juan Bautista, Mexico	12,327	Santiago de Compostella,	,	Schwerte, Germany	00,000
3	Saltillo Mevico	35 414	San Juan, Porto Rico* San Juan Bautista, Mexico San Juan de Bocboc,		Spain	24,660	Schwientochlowitz, Ger-	,
	Salto, Uruguay	19.788	Philippine Islands	11,853	Santiago de Cuba, Cuba	60,857	many	16,167
-	Salur, India	16,239	Jankaranaymarkovii, in-	16 775	Santiago dei Estero, Ar-	15 000	Sciacca, Italy, (com.)	21,482
	Saluzzo, Italy, (com.)	15,979	Sankt Inghert, Germany	17 278	Santinur India	26 808	Scuntnorpe, England	10,170
	Salvatierra, Mexico	10,262	Sankt Pölten, Austria	21,661	Santo Domingo, Domini-	20,070	Scutari (Skutari) Turkey	30,000
	Salamadal Cormany	30,188	San Lazzaro Parmense,		can Republic*	22,000	in Asia	80.000
	Samalkot India	16 015	Italy, (com.)	10,094	Santo Domingo, Philip-		Seaham Harbour, England	15.757
	Samana, India	10.209	San Lucar de Barrameda,	22 221	pine Islands	10,075	Sebastopol (Sevastopol),	
	Samanud, Egypt	14,408	San Lucae Rolivia	10 560	Santos, Brazil	22 064	Russia	77,500
	Samara, Russia1	45,568	San Luis, Argentina	14.000	San Vito al Tagliamento	23,004	Sebenico, Austria	29,579
	Samarang, Java	96,660	San Luis, Philippine Is-		Italy. (com.)	10.803	Secondigliano Italy	11,400
	Samarkand Russia in Asia	89 607	San Juan, Porto Rico* San Juan Bautista, Mexico San Juan de Bocboc, Philippine Islands Sankaranayinarkovil, India Sankt Ingbert, Germany Sankt Pölten, Austria San Lazzaro Parmense, Italy, (com.) San Lucas, Bolivia San Lucas, Bolivia San Luis, Argentina San Luis, Philippine Islands San Luis Potosi, Mexico San Marco in Lamis, Italy, (com.) San Marino, San Marino San Marind Polisippine Islands San Marino, San Marino San Marind Reiners San Marino San Marind Reiners	10,067	San Vito dei Normanni,		(com.)	14.743
	Sambalour, India	12.870	San Luis Potosi, Mexico	82,946	Italy	13,068	Secunderabad, India	83,550
	Sambas, West Borneo	12,096	San Marco in Lamis,	17 220	São Felix, Brazil	25,000	Sedan, France	19,599
- 1	Sambhal, India	39,715	San Marino San Marino*	1 500	São Leopoldo Brazil	20,000	bedgley, England	16,527
	Sambhar, India	10,873	San Marino, San Marino* San Martin de Provensals, Spain San Miguel, Philippine Islands San Miguel, Salvador San Miguel d'Allenda,	1,500	Sao Luiz (Maranhao)	20,012	begesvar (Schassburg),	44 505
	Sambiase, Italy, (com.)	10,559	Spain	32,700	Brazil	40.000	Segovia Spain	11,587
	Samoun Turkey in Acia	35 000	San Miguel, Philippine Is-		São Paulo, Brazil4	50,000	Segu (Sego). French West	14,030
	Sana. Turkey in Asia.	20,000	lands	14,919	Sapporo, Japan	70,084	Africa	36.000
	San Angel, Mexico	16,734	San Miguel, Salvador	25,440	Sara, Philippine Islands.	11,366	eicli, Italy, (com.)	20,185
	San Bartolomé, Mexico	14,700	Merico d'Allenda,	10 585	Saragossa (Zaragoza),	11 704	Selb, Germany	10,500
	San Benedetto del Tronto,	10.00	San Miniato, Italy, (com.)	20,542	Sarajevo (Bosna-Seraj)	11,/04	Seminala tinala	17,567
	Italy, (com.)	10,081	San Nicandro Garganico.	-,,,,,,	Austria-Hungary	51.919	Asia	25 122
	San Benedetto Po, Italy,	11 754	Italy, (com.)	11,250	Saransk, Russia	16,100	Semlin (Zimony) Hungary	17 131
	San Carlos Philippin T	11,/34	San Nicolas, Argentina.	13,000	Sarapul, Russia	21,500	Sendagaya, Japan	20,207
	lands	27 166	Norte (Philipping		Saratof, Russia2	17,418	Sendai, Japan	97,944
	San Carles, Venezuela	10,000	lands (Finisppine Is-	10.880	Saravia, Philippine Islands	13,132	Senigallia, Italy, (com.)	23,743
	San Casciano, Italy, (com.)	14,991	Sanok, Austria	10,000	Wack* Rarnes	19 000	Senji (Senju), Japan	22,765
	San Cataldo, Italy, (com.)	19,446	San Pablo, Philippine Is-	_0,500	Sardarshahr India	10 052	Sens France	17,106
	San Cristobal (in Chiapas),	40.5	lands	22,612	Sardhana, India	12,467	Sensunteneque Salvadar	14,007
	Sancti Spiritus Cub	13,745	San Pedro Perulapía, Sal-	40	Sariaya, Philippine Islands	12,453	Seohara, India	10 062
	banch Spiritus, Cuba	17,500	San Miguel, Salvador. San Miguel, Salvador. San Miguel d'Allenda, Mexico San Nicandro Garganico, Italy, (com.) San Nicolas, Argentina. San Nicolas, Argentina. San Nicolas, (in Ilocos Norte, (Philippine Islands. Sanok, Austria. San Pablo, Philippine Islands. San Pedro Perulapía, Salvador	10,608	Sarno, Italy, (com)	18,125	Seoni, India	11.864

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Seoul, Chosen (Korea),217,391	Sidi-bel-Abbes Algeria	Soignies Delei		1
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Serampore, India 44,451	Sidon (Saida) Turkey in	Solssons, France	14,334	Steinamanger (Szombathe-
Seravezza, Italy, (com.) 11.376	Asia 10 000	Solat, India	11,107	ly), Hungary 30.947
Seregno, Italy, (com.) 14 989	Siedlice (Syedleta) Puggia 24 072	Solitra, India	10,578	Stendal, Germany 27,263
Serena, Chile15,996	Sieghurg Germany 17 200	Sokai, Austria	10,000	Sterkrade, Germany 34.518
Seres, Greece 50 000	Siegen Germany 27 416	Solingen, Germany	50,536	Sterlitamak, Russia 18.175
Sergievsky Posad, Russia 27 000	Siemianowitz Commany 19,336	Solola, Guatemala	10,000	Sternberg, Austria 14.601
Sermadevi India 13 474	Signa Italy (com	Solothurn, Switzerland	11,688	Stettin, Germany 236 113
Serpukhof, Russia 36 200	Siero Spain	Soma, Nigeria	10,000	Steyr, Austria 18,000
Sers el Lavana Formt 15 453	Signalsh Danii	Somma Vesuviano, Italy,		Stirling, Scotland 21 200
Sessa Aurunca Italy	Sibor Indi-	(com.)	10,406	Stockerau, Austria 11 800
(com) 20.756	Silvanda - Lad Tadi	Sommerfeld, Germany	11,880	Stockholm, Sweden* 350 955
Sesto Fiorentio Italy	Sikandarabad, India 18,290	Sonamukhi, India	13,448	Stockport, England 108 682
(com)	Sikandra Kao, India 11,372	Sonderburg, Germany	10.042	Stockton-on-Tees England 52 154
Secto Sen Ciovanni Italia	Sikar, India 21,523	Sonepat, India	12,990	Stoke-upon-Trent Eng
Sesto San Giovanni, Italy,	Silao, Mexico 14,059	Sonneberg, Germany	15.878	land 224 E24
Contri D. 14,133	Silay, Philippine Islands 15,649	Sonson, Colombia	29.346	C4-11 (4 1)
Sestri Fonente, Italy,	Silistria, Roumania 13,000	Sonsonate, Salvador	14.000	Stolberg (near Aachen),
Cotif Almaria (1997)	Silivin, Turkey 25,399	Sopron (Odenberg), Hun-	,	Germany 15,460
Setil, Algeria, (com.) 26,261	Simbellawein, Egypt 11,417	gary	33.932	Stolp, Germany 33,762
Settur, India 14,328	Simbirsk, Russia 64,000	Sora, Italy, (com.)	16.245	Stoppenberg, Germany 12,020
Setudal, Portugal 24,687	Simferopol, Russia 69,670	Soran, Germany	18.019	Storozynetz, Austria 10,400
Sevastopol (Sebastopol),	Simla, India 13,960	Soresina, Italy, (com.)	11.053	Stourbridge, England 17,312
Russia 77,500	Simnan, Persia 16,000	Soroki, Russia	18,000	Straisund, Germany 33,988
Seville, Spain158,287	Sinchau, China 16,000	Soron, India	12,174	Strassburg, Germany178,891
Sezze, Italy, (com.) 12,530	Sinder (Zinder), French	Sorrento, Italy, (com.)	10,000	Straubenzell, Switzerland 15,305
Stax, Tunis 32,000	Sahara 10.000	Sorsogón, Philippine Is.	_0,500	Straubing, Germany 22,021
Shadrinsk, Russia 12,000	Singan, China500.000	lands	13.511	Strettord, England 42,496
Shahabad (United Prov-	Singapore, Straits Settle-	Sortino, Italy, (com.)	10.850	Striegau, Germany 14,587
inces), India 20,036	ments303.321	Sotteville (les-Rouen)	10,000	Stryj, Austria 30,942
Shahjahanpur, India 76,458	Si-ning-fu, China 60.000	France	10 042	Stuhlweissenberg, Hungary 32,167
Shajapur, India 10,000	Sini, Austria 40 633	Souffi Turkey	12 000	Sturobielsk, Russia 13,217
Shanghai, China 651,000	Sinope, Turkey in Asia 11,000	Southall Norwood Eng-	12,000	Stuttgart, Germany 286,218
Shao-hing, China 200,000	Signifor, Philippine Islands 12 116	land	26 222	Suakin, Anglo-Egyptian
Shao-king, China 20,000	Siraigani, India 23 114	Southampton England 1	10 012	Sudan 12.000
Sha-shi, China 80.000	Sironi, India 10 417	South Rank in Normanhy	19,012	Suchau, China 500.000
Shatsk, Russia 14,288	Sirsa (in Puniah) India 15 800	England	14 077	Suchitoto, Salvador 15,144
Shatut Damietta, Egypt. 21,589	Sistova (Svichtov) Rul-	Southand on Son England	62 712	Süchteln, Germany 10.118
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tine 25 000	Sixonini India	South Shields, England_1	08,047	Suhl, Germany 14 468
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Sheffield England 454 632	Sivakasi, India	England	13,784	Suleimanieh Turkey in Asia 30 000
Sherron India 15.057	Cinco India	South Yarra, Australia	10,000	Sulmona, Italy, (com.) 18 535
Sheilabourg India	Cholton and Ductton Fra	Sowerby Bridge, England	11,330	Sülz, Germany 23 731
Champing Dungin 21 500	Skeiton and Brotton, Eng-	Spaccatorno, Italy, (com.)	10,868	Sulzbach Germany 22 431.
Shemakha, Kussia 21,500	land 15,194	Spalato, Austria	27,492	Sumy Russia 51 545
Sherkot, India14,999	Skien, Norway 11,870	Spalding, England	10,308	Sunam India 10.060
Shibata, Japan 12,800	Skierniewice, Russia 11,900	Spandau, Germany	84,855	Sunderland England 151 150
Shibin el Kum, Egypt 21,576	Skipton (in Yorkshire),	Spennymoor, England	17,909	Sundayall Sweden 16.030
Shidzuoka, Japan 53,614	England 12,977	Speyer, Germany	23,045	Surabara Tarra 150 000
Shikarpur (in Bombay),	Skopin, Russia 15,000	Spezia, Italy, (com.)	73,599	Surelegete Terre 110 270
India 49,491	Skoplje (Uskup), Servia 47,384	Spinazzola, Italy, (com.)	12,407	Surandoi India
Shikarpur (in United Prov-	Skutari (Scutari), Albania* 30,000	Spoleto, Italy, (com.) :	25,996	Suret Todio 114 062
inces), India 12,249	Skutari (Sutari), Turkey	Spremberg, Germany 1	11,706	Curbiton England 17 717
Shikohabad, India 10,798	in Asia 80,000	Srinagar, India12	26,344	Surgence France 12 660
Shildon, England 13,488	Skvira, Russia 18,601	Srirangam, India	23,039	Suca Tunia
Shimabara, Japan 18,125	Slagelse, Denmark 10,463	Srivaikuntam, India 1	10,550	Sutton England 21 270
Seoul, Chosen (Korea), 217,391 Seraing, Belgium 41,015 Serampore, India 44,415 Serawezza, Italy, (com.) 11,376 Seregno, Italy, (com.) 14,989 Serena, Chile 15,996 Seres, Greece 50,000 Sergievsky Posad, Russia 27,000 Sergievsky Posad, Russia 36,200 Sermadevi, India 13,474 Serpukhof, Russia 36,200 Sers el Layana, Egypt 15,453 Sessa Aurunca, Italy, (com.) 20,695 Sesto Fiorentio, Italy, (com.) 20,695 Sesto San Giovanni, Italy, (com.) 20,695 Sesto San Giovanni, Italy, (com.) 24,646 Setif, Algeria, (com.) 26,261 Settur, India 14,328 Setubal, Portugal 24,687 Sevastopol (Sebastopol), Russia 77,500 Seville, Spain 158,287 Sezze, Italy, (com.) 12,535 Sfax, Tunis 32,000 Shadrinsk, Russia 12,000 Shadrinsk, Russia 12,000 Shadrinsk, Russia 12,000 Shanzhai, China 20,036 Shahjahanpur, India 76,458 Shajapur, India 76,458 Shajahan, China 80,000 Shao-bing, Ch	Slatoust (Zlatoust), Russia 35,246	Srivilliputtur, India 2	26,382	Catton, England 21,270
Japan 58,254	Sliedrecht, Netherlands,	Stables, Italy, (com.) ;	33,951	Sutton-in-Ashneld, Eng-
Shinchiku (Hsin-Chu),	(com.) 11,045	Stad-Almeo, Netherlands,		C. 140.
Formosa, Japan 16,064	Sligo, Ireland 11,163	(com.)1	10,387	Sutton-in-Coldneld, Eng-
Shingu, Japan 10,600	Slivno, Bulgaria 25,142	Stade, Germany1	1,078	c land 20,132
Shinjo, Japan 10,568	Slobodskoi, Russia 11,000	Stafford, England 2	23,383	Suwalki, Russia 33,000
Shipley, England 27,706	Slochteren, Netherlands,	Stalybridge, England	26,513	Suzzara, Italy, (com.) 13,004
Shiraz, Persia 45,000	(com.) 12,803	Stanimaka, Bulgaria	12,963	Svendborg, Denmark 12,007
Shokwa (Chang-Hua),	Slonim, Russia 16,000	Stanislau, Austria	33,328	Svenigorodka, Russia 21,000
Formosa, Japan 15,506	Slough, England 14,982	Stanley (in Durham),		Swadincote, England 18,674
Sholapur, India 75,288	Slutsk, Russia 19.583	England 2	23.294	Swansea, Wales114,663
Shoshi (Choshi), Japan 25,298	Smallingerland, Nether-	Stanley (in Yorkshire).		Swatow, China 66,000
Shrewsbury, England 29,380	lands, (com.) 12.509	England 1	13,586	Swindon, England 50,751
Shuia (Shuya), Russia 30,709	Smallthorne, England 13,559	Staraja, Russia1	16.000	Swinemunde, Germany 13,914
Shumla Bulgaria 22 225	Smethwick, England 70,694	Stara-Zagora (Eski-Sagra).	1	Swinton, England 13,654
Shuri Japan 25 141	Smichow, Austria 51,791	Bulgaria 2	22,003	Swinton and Pendlebury,
Shusha Russia 42 701	Smolensk, Russia 71 312	Stargard (in Pomerania)		England 30,759
Shuster Persia 18 000	Smyrna, Turkey in Asia, 375 000	Germany2	7.551	Sydney, N.S.W., Australia 139,897
Shredaung India 10.787	Sneek Netherlands (com.) 13 007	Starodub, Russia	9.000	Sydney, with suburbs636,353
Siglicat India	Sniatyn Austria 11 500	Starokonstantinof Russia 1	9.000	Sylhet, India 13.893
Signatan China 1,000,000	Soatá Colombia 10.000	Stary Oskol Russia 1	8.475	Syracuse, Italy, (com.) 40.587
Siang wang China 50,000	Socorro Colombia 12,000	Stacefurt Germany	6.794	Syzran, Russia 46.233
Siates Philipping Islands 10 074	Söderhamn Sweden 11 452	Stavanger Norway	7.118	Szabadka (Maria There-
Sibolam Dhilipping Islands 12 461	Södertölie Sweden 11,432	Stayronal (in Caucasia)	.,,,,,	sionel) Hungary 94 610
Sibalom, Philippine Islands 12,401	Spect Germany 19 467	Puccia (in Caucasia),	0.540	Szarvas Hungary 25 775
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Tabora, German East Tarnowitz, Germany 13,58	2 The Paarl, South Africa. 11,283 Torres Novas, Portugal. 10,800
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Tala, Uruguay 10,000 Tehuantepec, Mexico 11,0	13 Titagarh, India 16,065 Treviglio, Italy, (com.) 18,064
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Spain 10,580 Tellicherry, India 27,8	33 Tiverton, England 10,205 Trichinopoli, India 122,029
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Tsu, Japan	PRINCIPA	AL CI	TIES OF THE WORLD			89
Tsu, Japan 41,229	Urga, China	30,000	Versailles, France	60,458	Vodena, Greece	11.000
Tsuruga, Japan 11,700	Uruapan, Mexico	30,000 13,149	Versecz, Hungary	27,370	Voghera, Italy, (com.)	23,242
Tubigon, Philippine Is-	Uruguayana, Brazil	10,000	Vesoul, France	10,165	Voiron, France	14,730 12,083
lands 15,168	Uskup (Skoplje), Servia.	47,384	Veszprem, Hungary Vevey, Switzerland	14,792 13,664	Völklingen, Germany	18,104
Tuburan, Philippine Is-	Usman, RussiaUsovka, Russia	11,475	Viadana, Italy, (com.)	16,812	Volo, Greece	23,563
Tucuman Argentina 78 605	Usuki, Japan	20,923	tugal	10,486	Volsk, Russia	38,700 36,150
Tuguegarao, Philippine Is-	Utrecht, Netherlands,	14,340	Viareggio, Italy Viasma (Vyazma), Russia	21,128	Voorst, Netherlands, (com.)	10,766
Tukh Dalka, Egypt 10,365	Utrera, Spain	19,006	Viatka (Vyatka), Russia.	44,114	Vosnesensk, Russia	14,750
Tula, Russia 136,530	Utsunomiya, Japan	47,114	Viborg, Russia	27,765	Vratza, Bulgaria	11,439 15.230
Tulle, France 17,245	Uttaramerur, India	10,009	Vicenza, Italy Vich, Spain	54,559 11,656	Vyasama, Russia	15,500
Tultcha, Roumania 21,764 Tumkur, India 11,888	Uwadshima (Uwajima),	11.000	Vichy, France	15,315	Vyerny, Russia in Asia	36,401
Tunbridge Wells, England 35,697	Uxbridge, England	10,374	Brazil	12,000	Wadhwan, India Wai, India	16,223 13,989
Tunghwan, China 70,000	Uzensk (Novo). Russia.	24,843 16.000	Victoria, Hongkong*2 Victoria (in Tamaulinas)	27,750	Waitzen (Vácz), Hungary	18,952
Tung-kuan, China 120,000	Vadi, India	10,213	Mexico.	17,861	Wakayama, Japan	77,303
Turaiyur, India 12,870	Vaduz, Liechtenstein*	1,206	Vidin, Bulgaria	16,450	Wakeheld, England Walajapet, India	51,511
Turka, Austria 10.000	Valdepefias, Spain Valdivia, Chile	23,568 17,681	Vienna (Wien), Austria*2,0	31,498	Wald, Germany	25,274
Turkeve, Hungary 13,097	Valence (in Drôme), France	28,112	Vien-tiane, French Indo-	2,007	Germany (in Shesia),	19,681
Turnhout, Belgium 23,742	Valencia, Spain2	33,348 25,000	Viersen, Germany	20,000 30,172	Waldheim, Germany Walk, (Valk) Russia	12,352
Turnu Sévérin, Roumania 23,765 Turton, England 12,648	Valenciennes, France Valenza, Italy (com)	34,766	Vierzon, France	12,080	Wallasey, England	78,504
Tuticorin, India 28,048	Valetta, Malta*	22,882	Vigevano, Italy, (com.)	28,081	Walsall, England	92,115
Tuxtla, Mexico 10,239	Valguarnera Caropepe, Italy, (com.)	13,392	Vigo, SpainVilich. Germany	41,500 15,194	Walthamstow, England1 Walton le Dale, England	24,580
Tuy, Spain 11,200	Valk (Walk), Russia	11,900	Vilkomir, Russia	15,000	Walton upon Thames, Eng-	12,550
Tuzla, Bosnia, Austria-	lands	10,550	Villa del Pilar, Paraguay	12,000	Wandsbek, Germany	12,856 35,212
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Twickenham, England 29,367	Valle de Santiago, Mexico	12,737	tugal	14,700	Wanne, Germany	38,884
England15,582	Valparaiso, Chile1	96,596	Villanueva de la Serena,	10,000	Waqf Qalmena, Egypt	13,830
Tynemouth, England 58,816 Tyrnau (Nagyszombat).	Van, Turkey in Asia	35,000 12,005	SpainVillanueva v Geltrú Spain	13,500	Warasdin, Hungary	12,930
Hungary 15,163	Vannes, France	23,561	Villa Rica, Paraguay.	25,000	Warora, India	10,626
Uccle, Belgium 26,979	Vanves, France	12,265	Villarrobledo, SpainVillasis, Philippine Islands	12,660	Warrington, England 8	72,166 72,485
Udaipur, India 45,976	Varazze, Italy, (com.)	10,330	Villaviciosa, Špain	23,273	Warwick, England	11,858
Uddevalla, Sweden 12,851	Varna, Bulgaria	1,419	France	16,031	Waterford, Ireland	27,430
Udine, Italy, (com.) 47,017 Ueda, Japan 23,838	Varttirayiruppu, India Vasa (Nikolaistad), Russia 1	22,443	Villena, SpainVilleneuve-sur-Lot, France	13,540	England England	26,396
Ufa, Russia 103,500	Vasilkof, Russia	21,500	Villeurbanne, France	42,526	Wath upon Dearne England	40,939
Africa 12,193	Vasto, Italy, (com.)	14,827	Villupuram, India	11,263	Wattenscheid, Germany.	27,636
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Ujiyamada (Jamada),	(com.)	2,195	Vina del Mar, Chile	26,262	Wazirabad, India	18,069
Ujjain, India 39,892	Vejle, Denmark	7,261	Vinnitsa, Russia	17,841	Wednesbury, England	28,103
Ujpest, Hungary 55,197	Velbert, Germany 22	4.000	Viramgam, India Viravanallur, India	18,952	weert, Netherlands,(com.) 1 Wegrow (Wengrow), Russia 1	11,500
Ulm, Germany 56,109	Velez, Servia	5,624	Virudupatti, India	16,837	Weiden, Germany 1	14,921
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90	FRINCIPAL CITIES	OF THE WORLD	
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West Dromwich, England 00,332	Withington England 26 202	China (Tenping),	Zagazig, Egypt 35,000 Zagrab (Agram), Hungary 79,038
Westervik (Vastervik),	Withington, England 30,202	Washand China 60 000	Zagrab (Agram), Hungary 79,038 Zahleh, Turkey in Asia 15,000
Sweden 10,508	Witkowitz, Austria 25,157	Yarkand, China 00,000	Zalieli, Turkey iii Asia 15,000
West Ham, England289,030	Witten, Germany 37,450	Yarmouth Great Yar-	Zala Egerszeg, Hungary 10,844
West Hartlepool, England 03,923	wittenberg (in Saxony),	mo itn), England 55,905	Zaienze, Germany 15,150
Westhoughton, England 15,046	Germany 22,419	Yarosiai, Kussia111,8/6	Zamora, Mexico 15,110
Weston-super-Mare, Eng-	Wittenberge, Germany 20,000	Yarumai, Colombia 21,250	Zalla Egerszeg, Hungary 10,844 Zalenze, Germany 15,150 Zamora, Mexico 15,116 Zamora, Spain 16,487 Zante, Greece 13,580
land 23,235	Włociawak, Russia 37,416	Yatsushiro, Japan 11,100	Zante, Greece 13,580
weststellingwert, Nether-	I WOKING, England 24.808	Yaval, India 11,448	Zanzidar, Zanzidar Pro-
lands, (com.) 16,519	Wolfenbuttel, Germany 18,934	Yawata, Japan 22,767	tectorate* 35,260
Wetteren, Belgium 16,311	Wolstanton United, Eng-	Yecla, Spain 23,046	Zapotlan, Mexico 18,000 Zapotlanejo, Mexico 20,750
Wetzlar, Germany 13,389	land 27,835	Yeisk, Russia 48,404	Zapotlanejo, Mexico 20,750
Wexford, Ireland 11,455	Wolverhampton, England 95,328	Yekaterin' urg (Ekaterin-	Zara, Austria 36,604
Weymouth and Melcombe	Wombwell, England 17,536	burg) Russia 70,000	Zaragoza (Saragossa),
Regis, England 22,324	Wonsan, Chosen (Korea) 17,138	Yekaterinoslaf (Ekaterin-	Spain 51,919
Whickham, England 18,332	Wonseradeel, Netherlands,	osla), Ru sia217,850	Zaraza, Venezuela 10,000
Whitby, England 11,139	(com.) 12,847	Yelabuga (Elabuga),	Zbaraz, Austria 10,000
Whitehaven, England 19,044	Woodford (in Essex), Eng-	Russia 10,000	Zehlendorf, Germany 16,864
Whitley and Monkseaton,	land 18,496	Yelets (Jelets), Russia 58,000	Zapotlanejo, Mexico 20,750 Zara, Austria 36,604 Zarigoza (Saragossa), 5pain Spain 10,000 Zaraza, Venezuela 10,000 Zehlendorf, Germany 16,864 Zeilah (Zeyla), French 15,200 Zeist, Netherlands, (com.) 12,806 Zeitz, Germany 33,096 Zele, Belgium 14,302 Zenian, Persia 24,100
England 14,407	Wood Green, England 49,369	Yelisavetgrad (Elizavet-	Somaliland 15,200
Whittington and Newbold,	Woodstock, Transvaal,	grad), Russia 75,850	Zeist, Netherlands, (com.) 12,806
England 17,213	Union of South Africa_ 30,000	Yelisavetpol (Elizavetpol),	Zeitz, Germany 33,096
Widnes, England 31,541	Woolahra, Australia 12,816	Russia 60,454	Zele, Belgium 14,302
Wien (Vienna), Austria* 2,031,498	Worcester, England 47,982	Yellandlapad, India 12,377	Zenjan, Persia 24,100
Wiener-Neustadt, Austria 32,874	Workington, England 25.0 2	Yemmiganur, India 13.890	Zenta, Hungary 29.666
Wiechaden Germanst 100 002	IMorkson England 20 387	Vanchau China ' 60 000	Zarbet Germany 10 210
Wiesdorf, Germany 15,363	Worms, Germany 46,819	Yeni Chehir, Turkey in	Zeulenroda, Germany 10,389 Zgierz, Russia 19,124 Zhitomir, Russia 92,580 Zifta, Egypt 15,850
Wigan, England 89,152	Worsborough, England 12,750	Asia23.500	Zgierz, Russia 19.124
Wijmbritseradeel, Nether-	Worsley, England 13.906	Yenping (Yanphing).	Zhitomir, Russia 92,580
lands, (com)	Worthing, England 30.305	China200.000	Zifta, Egypt 15.850
Wiju (Wi-Jyu), Chosen	Wrexham, Wales 18.377	Yeola, India 16.555	Zilleh (Zileh), Turkey in Asia 27,000
(Korea) 13,215	Wrschowitz, Austria 24.646	Yeotmal, India 10.549	Asia 27.000
Wilhelmsburg, Germany 28,225	Wuchang, China 500,000	Yeovil, England 13 759	Zimony (Semlin), Hungary 17,131
Wilhelmshaven, Germany 35,042	Wuchau, China 59 0001	Vezd Persia 45 000	Zinder (Sinder) French
Willebroeck, Belgium 11,906	Wuhu. China122.000	Ying-tsze, Manchuria 60,000	Sahara 10.000
Willenhall, England 18.844	Willtrath, Germany 10 1031	Vochau China 20.000	Zipaguira Colombia 11 000
Willesden, England 154.214	Wurno, Nigeria 15 000	Yokkaichi, Tapan 30 704	Zitacuaro, Mexico 11,100
Williamstown Australia 12 114	IWitrselen Germany 13 0841	Vokohema Ianan 204 202	Zittan Germany 27 084
Wilmersdorf, Germany 109,716	Würzburg, Germany 84 496	Vokosuka Tanan 70.064	Zizkow, Austria 72,173
Wimbledon, England 54.966	Wurzen, Germany 18,582	Vola Nigeria 15,000	Ziatoust (Slatoust)
Winburg(Wynburg), Union	Wycombe (Chipping-)	Vonago Tapan 12 500	Zlatoust (Slatoust), Russia
of South Africa 16 000	England 20 387	Vonezawa Tanan 25 200	7loczów Austria 10.000
Winchester, England 23 378	Wynhurg (Winhurg) C G	Vongsan Chosen (Korea) 50 101	Znoim Austria 19.750
Wind oek, German S W	H Union of S Africa 16 000	Vork England (Morea), 50,191	Zolotoposha Pussia 10,750
Africa*	Xanthus (Xanthie) Tur	Vores Relainm 47,400	Zombon Hungawi
Windsor England 15 370	key in Asia	Veted Sweden 11,409	Zonnot Company 15.015
Winschoten Netherlands	Yochimilco Mexico 20,000	Vunnan China 11,084	Zoppot, Germany 15,015
(com) 11 202	Vakoba Nigeria 70,000	Vurious (Daniel 150,000	Loungouldak, Turkey in
Wineford (in Chechire)	Valta Pussia	Yuriev (Dorpat), Russia 44,140	Asia 25,000
England (in Cheshite),	Vamagata Japan	Yuyao, China 60,000	Asia 25,000 Zuffenhausen, Germany 12,752 Zurich, Switzerland 19è,733 Zutphen, Netherlands, (com.) 18,313
Winterswill Notherlands	Variational Japan 42,234	Zaandam, Netherlands,	Zurich, Switzerland 192,733
Winterswijk, Netherlands,	Tamaguchi, Japan 21,100	(com.)24,579	Zutphen, Netherlands,
Winterthur Caritagaland 05 050	Yamboli (Jamboli), Bulgaria 15,956	Zaborge, Germany 27,065	(com.) 18,313
Winterthur, Switzerland 25,250	Yanagawa, Japan 19,000	Zabrze, Germany 63,373	Zweibrücken, Germany 15,215
Wisbech, England 10,822	Yang, China 15.000	Zacatecoluca Salvador 24 944	Zwolle, Netherlands (com.) 34 055



PRINCIPAL UNIVERSITIES IN THE UNITED STATES

State	The	titution	Denomination	T	Approx. No. of Students
Ala		Alabama	Denomination	Location	
Ark	66	Arkanene	- 66	.University	
Cal	. "	California	"	Berkelev	8,180
44	T 1 . 1 . 1	Southern California	M. E	Los Angeles	3,000
Col	Leland	California. Southern California. Stanford Junior Univ. f Colorado. Denver.	.,Nonsect	Stanford Univ	1,893
"		Denver	M. E	University Park	1,400
Conn	. Yale Ur	niv.	Nonsect	New Haven	3,289
D. C	. George	Washington Univ		.Washington	1,700
Fla.	.Howard	Stetson Univ	7	n. " , i	1,600
Ga	. Univ. of	Georgia	Nonsect	De Land	500
Idaho	. "	Idaho		Athens	600
III		Chicago	"	.Chicago	7,131
66	Loyola L	Univ Æillikin Univ	R. C Presb.	Decatur	
66		estern Univ	M. E	Evanston	
"	. Univ. of	Illinois	Nonsect	Urbana	
Ind	.Indiana	Univ		.Bloomington	2,163
"	. De Pau	w Univ Univ	M. E. Nonsect.	Greencastle	1,100
66	TT	* NT - 4 T	70 0	Lafayette	4 400
46	.Valpara	iso Univ	Nonsect	Valparaiso	6,000
Iowa	State U	Notre Dame siso Univ. niversity of Iowa. Kashasa. Wesleyan Univ. niv. of Kentucky. Univ. of Louisiana. Maine. opkins Univ.	66	Iowa City	2,768
Kan	Univ. of	Wasleyen Univ	76 TC	Lawrence	2,600 950
Kv	State U	niv. of Kentucky	Nonsect	Lexington	1,300
La	.Tulane	Univ. of Louisiana		New Orleans	2,441
Me	.Univ. of	Maine		Orono	1,200
Md	Johns H	Opkins Univ		Baltimore	1,374
Mass		Univ		Cambridge	
Mich	. Univ. of	Michigan	66	Ann Arbor	6,319
Minn	. 66	Minnesota		Minneapolis	4,484
Miss	. "	Mississippi		University Columbia	600
IVI.O	St Lovie	Missouri.		St. Louis	1,500
60		ton Univ	Nonsect		2,000
Neb	. Univ. of	Nebraska		Lincoln	3,199
N. J	Princeto	n Univ		Princeton	1,641
N. Y	C-1	Univa. Univ	66	New York	11,294
66	. Fordhan	n Univ	R. C		
	. New Yo	rk_Univ	Nonsect		6,142
"	.Syracuse	Univ	"	Syracuse	1,000
N. C	Univ. of	North Dakota	"	University	800
0	Ohio No	la Univ. rk Univ. s Univ. North Carolina. North Dakota. rthern Univ.	M. E	Ada	1,500
"			Nonsect	Athens	1,500
	. Univ. of	Cincinnatite Univ	46	Cincinnati	4,943
"	Ohio We	sleyan Univ	м. E	Delaware	1,300
46	. Denison	Univ	Bapt	Granville	800
46	. Miami 1	Univ		Oxford	1.000
6	. Univ. of	WoosterOklahoma	Presb	Norman	1,100
Okla		Oregon		Eugene	1,300
Pa	Bucknell	Univ	Bapt	Lewisburg	800
	.Temple	Univ	Nonsect	.Philadelphia	1,700
<u>"</u>	. Univ. of	Pennsylvania Pittsburgh	66	Pittsburgh	2,975
PÏ	. Brown U	Iniv	Bapt	Providence	1,000
Tenn	. Univ. of	Tennessee	Nonsect	Knoxville	1,100
46	Lincoln .	Memorial Univ	"	Austin	3,371
Tex		Texas Jniv	Dant	Waco	1,200
TTA-L	. Baylor U	litah	Nonsect	Salt Lake City	1,200
Vt	. Giiv. Ol	Vermont		Durington	700
Va	. "	Virginia		Charlottesville	2,600
Wash	. "	Washington		Morgantown	1,000
W. Va	"	West Virginia		Madison	0,090
₩ IS	Marquet	te Univ	R. C	Milwaukee	1,800
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TABLE OF MOVABLE FEASTS, ETC.—1890-1950

By Berlin H. Wright

By Berlin H. Wright											
			1	Easter					Sundays After		First
Year	Septuagesima	Ash			(Ascension	Pentecost	.;; <u>;</u> ;). ost	Sunday in
	Sunday	Wednesday	Golden	Epact.	Sunday	Easter		Sunday	Trinity (Prot.).	Pentecost (Cath.).	Advent
			No.		Letter	Day			FO	Pe	
1890	February 2	February 19	10	9	E	April 6	May 15	May 25	25	26	November 30
1891 1892	January 25 February 14	February 11 March 2	11 12	20	C B	March 29 April 17	May 7 May 26	May 17 June 5	26 23	27 24	November 29 November 27
1893	January 29	February 15	13	12	A G	April .2	May 26 May 11	May 21	26	27	December 3
1894	January 21 February 10	February 7 February 27	14 15	23	G F	March 25 April 14	May 3 May 23	May 13 June 2	27	28	December 2 December 1
1895 1896	February 2	February 19	16	4 15	E D	April '5	May 14	May 24	25	25 26	November 29
1897 1898	February 14 February 6	March 3 February 23	17	26 7	Ç	April 18 April 10	May 27 May 19	June 6	27 24 25 23 24	24	November 28 November 27
1898	February 6 January 29	February 15	19	18 .	C B A G F E	April 2	May 11	May 29 May 21	26	25 27	December 3
1900	February 11	February 28	1 2	29 10	G	April 15 April 7	May 24 May 16	June 3 May 26	24	25 26	December 2 December 1
1901 1902	February 3 January 26	February 20 February 12	3	21	Ē	March 30 April 12	May 8	May 18	26	27	November 30
1903	February 8	February 25	4	2 13	CD _D	April 12 April 3	May 21 May 12	May 31	24	25	November 29 November 27
1904 1905	January 31 February 19	February 17 March 8	6	24	C B A G	April 23	June 1	May 22 June 11	23	26 24	December 3
1906	February 11	February 28	3 4 5 6 7 8	5 16	G F	April 15 March 31	June 1 May 24	June 3 May 19	24	25	December 2 December 1
1907 1908	January 27 February 16	February 13 March 4	9	27	ED	April 19	May 9 May 28	June 7	24 25 26 24 25 23 24 26 23 24	24	November 29
1909	February 7	February 24	10	8	ED	April 19 April 11 March 27	May 20	June 7 May 30	24	25 27 24 25 27	November 28
1910 1911	January 23 February 12	February 9 March 1	11 12	19 0	B	April 16	May 5 May 25	May 15 Tune 4	26 24	27	November 27 December 2
1912	February 4	February 21	13	11	GF	April 7 March 23	May 16	June 4 May 26	25	26	December 1
1913 1914	January 19 February 8	February 5 February 25	14	22	E	April 12	May 1 May 21	May 11 May 31	27	28 25	November 30 November 29
- 1915	January 31	February 17	16	14	C	April 4	May 13	May 23	25	26	November 23
1916 1917	February 20 February 4	March 8 February 21	17	26 6	B A	April 23 April 8	June 1 May 17	June 11 May 27	23 25	24 26	December 3 December 2
1918	January 27	February 13	19	17	F	March 31	May 9 May 29	May 19	25 27 24 25 23 25 26 23 25 26 23	26 27 24	December 1
1919 1920	February 16 February 1	March 5 February 18	1 2 3	29 10	DE C	April 20 March 4	May 29 May 13	June 8 May 23	23 25	24 26	November 30 November 28
1921	January 23	February 9	3	21	В	March 27	May 5	May 15	26	26 27	November 27
1922 1923	February 12 January 28	March 1 February 14	4 5	13	A G	April 16 April 1	May 25 May 10	June 4 May 20	24 26	· 25 27	December 3 December 2
1924	February 17	March 6	- 6	24	FE	March 5	May 29	June 8	24 26 23 24 25 23 25 26	24	November 30
1925 1926	February 8 January 31	February 25 February 17	7 8	5 16	D	April 12 April 4	May 21 May 13	May 31 May 23	24 25	25 26	November 29 November 28
1927	February 13	March 2	10	27	R	April 17	May 26	June 5 May 27	23	24	November 27
1928 1929	February 5 January 27	February 22 February 13	10	8 19	A G F E	April 8 March 31	May 17 May 9	May 27 May 19	25 26	26 27	December 2 December 1
1930	February 16	March 5	12	0	Ē	April 20	May 9 May 29	June 8 May 24	23	27 24	November 30
1931 1932	February 1	February 18 February 10	13 14	11 22	CB	April 5 March 27	May 14 May 8	May 24 May 18	25 26	26 27	November 29 November 27
1933	January 24 February 12	March 1	15	3	A G	April 16	May 25	Tune 4	24	25	December 3
1934 1935	January 28 February 17	February 14 March 6	16 17	14 26	G F A	April 1 April 21	May 10 May 30	May 20 June 9	. 26	27 24	December 2 December 1
1936	February 9	February 26	18	6	ED	April 21 April 12 March 28	May 21	May 31	24	2.5	November 29
1937 1938	January 24 February 13	February 10 March 2	19	17 29	CB	March 28 April 17	May 6 May 26	May 16	26	27 24	November 28 November 27
1939	February 5	February 22	1 2 3	10	. A	April 9	May 18	June 5 May 28	25	26	December 3
1940 1941	January 21 February 9	February 7 February 26	3	21 2	G F	April 9 March 24 April 13	May 2 May 22	May 12 June 1	27	28 25	December 1
1942	February 1	February 18	5	13	G F D C	April 5	May 14	May 24	25	26	November 30 November 29
1943 1944	February 21 February 6	March 10 February 23	4 5 6 7 8	24	BA	April 25 April 9	June 3 May 18	June 13	23 24 26 23 25 27 24 25 22 25 26 23 25 26	23 · 26	November 28
1945	January 28	February 14	8	16	G F	April 1	May 10	May 28 May 20	26	27	December 3 December 2
1946 1947	February 17 February 2	March 6 February 19	10	27	F	April 21	May 30 May 15	June 9	23	24	December 1
1948	January 25	February 11	11	19	DC	April 6 March 28	May 6	May 25 May 16	26	27 24 26 27 24	November 30 November 28
1949 1950	February 13 February 5	March 2 February 22	12	11.	BA	April 17 April 9	May 26 May 18	June 5 May 28	23		November 27
1930	1 repluary 5	rebluary 22	1 13	1 11.	- A	April 9	May 18	Way 28	25	26	December 3

THE LONGEST DAY

It is quite important when speaking of the longest day of the year to say what part of the world we are talking about, as will be seen by the following list.

At Stockholm, Sweden, the longest day is eighteen and one-

At London, England, and Bremen, Prussia, the longest day has seventeen hours.

At Wardbury, Norway, the longest day lasts from May 21st to July 22d, without interruption.

At PETROGRAD, Russia, and Tobolsk, Siberia, the longest day is nineteen hours and the shortest five hours.

At Tornea, Finland, June 21st brings a day nearly twenty-two hours long, and Christmas is less than three hours in length.

At New York, the longest day is about fifteen hours long, and at Montreal, Canada, it is sixteen.

CITIES AND TOWNS OF THE DOMINION OF CANADA LATEST POPULATION FIGURES

The following list names in alphabetical order, all incorporated places and approximately all cities and towns in the Dominion of Canada having two hundred or more inhabitants. The numerals at extreme right of columns are the latest available census figures or recent estimates. Capitals of Provinces are in capital letters.

		s or recent estimates.	Capitals of Provinces	are in capital letters.
ALBERTA	ALBERTA Cont'd.	BR. COL. Cont'd.	BR. COL. Cont'd.	MANITOBA Cont'd.
Acme 181	Lille 303			
Airdrie 164	Lloydminster	Corbin 450	Trail1,40U	Person 230
Alix 267	Macleod 1 844	Craphrook 2000	V 325	Phot Mound 457
Athabaska Landing 227	Magrath 005	Creston 200	Vancouver100,401	Plumas 255
Banff 937	Manville 160	Cumberland 1 227	VICTORIA 21.600	Plum Coulee 380
Bankhead 694	Medicine Hat, Est. 17,000	Duncane Station 600	Wordner 320	Portage la Prairie 5,892
Barnwell 225	Millet 162	Earls Road 300	Wellington 270	Rapid City 580
Barons 75	Morinville 385	Eholt 325	Vmir	Rathwell 230
Bassano 540	Munson 200	Enderby 835	TIIII Q00	Rivers 950
Bawlf 270	Nanton 571 North Edmonton 404 North Red Deer 304	Erie 220 Esquimalt 4,001	MANITOBA	Roblin 350
Bellevue 463	North Edmonton 404	Esquimalt 4.001		Poland 433
Bickerdike 150	North Red Deer 304	Fairview 330	Alexander	Roland 433 Rosenfeld 225
Blackfalds 150	Ogden 530	Ferguson 235	Altona 450	Russell 562
Blackfalds 150 Blairmore 1,137	Okotoks 516	Fairview 330 Ferguson 235 Fernie 3,146	Arden 225	St. Boniface7,483
Bowden 178				Ste. Anne des
Bow Island 307	Passburg 305	Go.den 932	Baldur 415	Chenes 325
Brooks 486	Pincher 116	Grand Forks1.577	Barrows 245	St. George 200
				St. George 200 St. Jean Baptiste 1,174
Burdette 230	Ponoka	Hazelton 550	Belmont 350	St. Laurent 581
CalgaryEst.84,000	Provost 329	Hedley 320	Benito 225	St Norbert1,448
Camrose1,586	Queenstown 666	Hosmer2,019	Binscarth 260	St. Pierre Jolys 473
Canmore 754	Raymond1,465	Kamloops 3,772	Birtle 437	Selkirk2,977
Cardiff 246	Redcliffe 220	Kaslo 722	Boissevain 918	ShoalLake 591
Camore 754 Cardiff 246 Cardston 1,207 Carmangay 286 Carstairs 270 Castor 1,659 Cayley 126 Claresholm 809 Coalhurst 450 Cockrane 305	Red Deer2.118	Kelowna 1,663	BrandonEst.17,500	Somerset 275
Carmangay 286	Riviere Qui Barre _ 190	Kitchener 235	Carberry 878	Souris1,854
Carstairs 270	St. Albert 614	Kyuquot 350	Carman1,271	Stonewall1,005
Castor1,659	Sedgewick 331	Ladner 800	Cartwright 300	Stony Mountain 200
Cayley 126	Stafford 985	Ladysmith3 295	Crystal City 535	Strathclair 230
Claresholm 809	Stavely245	Langley Fort 250	Cypress River 305	Swan Lake 250
Coalhurst 450	Stettler1,444	Langley Prairie 320	Dauphin2,815	Swan River 574
Cochrane 395	Stirling 514	Lillooet 300	Deloranic 000	T CHIOH
Coleman1,557	Stirling 514 Stony Plain 505 Strathcona 5,579	Luiu Island 300	Dominion City 225	Transcona 300
Coronation1,200	Strathcona 5,579	Lytton 200	Dunrea 200	Treherne 600
Cowley 142	Strathmore 531	Marysville 300	Elgin 365	Tyndall 235
Cowley 142 Crossfield 262 Daysland 349	Strome 192	Merritt 703	Elkhorn 574	Virden1,550
Daysland 549	Taber1,400	Michel 250	Eim Creek 265	Waskada 330
Diamond City 510	Toneid 350	Midway 250	Carrage Carrag	Wawanesa 3/3
DIGSDURY 1201	Trochu 333	Wission City 500	Cilland Diaine E42	WINKIEF 430
EDMONTON ESTOS, 300	Vegrevine, 625	No leves	Cimli 406	Winning Pooch 245
Edson 497	Villing 153	Nanaima 8 168	Cladetone 782	Winninggoeie 518
Entwictle 140	Wainpright 788	Nelson 4 476	Clephoro	Vork Factory 291
Entwistig 131	Walliwright 200	New Denver 300	Grandview 637	TOTAL TACCOLY.
Exchange 250	Warner	New Michel 900	Greina 510	NEW BRUNSWICK
Fitzbuch 225	West Edmonton 181	New Westminister 13 199	Griswold 325	ALDIV DITOLIC
Et Sackatchewan 782	Wetaskiwin 2411	No Vancouver 8 196	Hamiota 565	Albert 350
Frank 806	W CCaskiwill	Peachland 300	Hartney 623	Albert Mines 200
Gadeby 213	BR. COLUMBIA	Penticton 750	Holland 361	Alma 250
Gleichen 583	24. 00202222	Phoenix 662	Inkster 225	Andover 289
Daysland 349 Diamond City 510 Didsbury 726 EDMONTON Est 68,500 Edson 497 Elm Park 140 Entwistle 140 Erskine 131 Exshaw 250 Fitzhugh 225 Ft. Saskatchewan 782 Frank 806 Gadsby 213 Gleichen 583 Granum 250 Grassy Lake 247 Grouard 447 Hardieville 330	Abbotsford 300	Pilot Bay 200	Killarney1,010	Apohaqui 300
Grassy Lake 247	Agassiz 330	Point Grey4,320	La Riviere 225	Armstrongs Brook _ 250
Grouard 447	Ainsworth 320	Port Alberni 700	Lauder 225	Aroostook Junction 500
Hardieville 330	Alberni 891]	Port Essington 350	Le Pas 265	Back Bay 200
Hardisty 351 High River1,182				
High River1.182	Armstrong 810	Port Haney 230	Mac Gregor 550	Baillie 600
Hillcrest Mines 481	Arrowhead 560 I	Port Moody 550	Manitou 639	Balmoral 600
Hillcrest Mines 481 Hill Spring 275 Holden 111	Ashcroft 535 I	Port Haney 230 Port Moody 550 Prince Rupert 4,184	Melita 690	Barachois 300
Holden 111	Atlin 325 I	Princeton 400 1	Miami 375	Barnaby River 200
Innisfail 601	Barkerville 320 (Quatsino 200 1	Miniota 325	Barnesville 300
Irricana 400	Barnet 300 0	Prince Rupert 4,184 Princeton 400 Quatsino 200 Quatsino Sound 200 Revelstoke 3,017	vinnedosa1,483	Bass River 300
T	Beaconsfield 300 I	Revelstoke3,017	dorden1,130	Bath 500
Killam 197	Beaver Lake 300 H	Rossland2,826	dorris 598	Bathurst 960 Bay du Vin 300
Killam 197 Kimball 265 Lacombe 1,029	Brechin 250	almon Arm 400 1	Vapinka 326	Bay du Vin 300 Beaver Harbor 270
Lacombe1,029	Camborne 300	echelt 400 1	Neepawa1,864	Belledune 400
	Central Park 500	locan 189 [veison House 468	Belledune River 200
Langdon 150	Chemainus 550 S	o. Vancouver16,126	vewdale 225	Belledune River 200
Lavoy 127	Chilliwack1,557 S	teveston1,100 I	Vinga 325	Berrys Mills 500
Leduc 523	Clayoquot 300 S	tewart 800 N	Norway House1,150	Berrys Mills 200
Leduc 523 Lethbridge Est, 11,000	Cloverdale 220 S	Assland	Dak Lake 449	Black River 300
Lignite 330	Cobble Hill 285[]	elegraph Creek 250 C	ak River 225]	DIGCE ICIYOL 000

Black Harbor	N. B. Cont'd.	N. B. Cont'd.	N. B. Cont'd.	NOVA SCOTIA Cont'd.	NOVA SCOTIA Cont'd.
Blackville		Tacquet River 400	St. Anthony 200	Belle Marche 200	E. Pubnico 600
Bissville	Blackville 450	Tolicure 250	Ste. Croix: 300	Belleville 300	E. River
Caraquet	Blissfield 250	Kingston 500	St. George 988	Belliveau Cove 300	Economy 250
Caraquet	Blissville 300	Kouchibouguse 600	St. Jacques 200 St. Tohn 42 511	Berwick 1.000	Ecum Secum 250
Caraquet	Bloomfield, Kings 200	Lameque 375	St. Toseph. 400	Big Bras d'Or 200	Eel Brook 200
Caraquet	Boisetown 250	Lepreau 300	St. Josephs 200	Big Tracadie 250	Elmsdale 400
Caraquet	Bonney River 200	L'Etete 200	St. Leonards 276	Billtown 200	Entield 250
Caraquet	Botsford Portage 250	Lewisville 350	St. Louis. 400	Blandiord 200	Fairview Station 250
Caraquet	Buctouche 500	Loggieville 800	St. Marys Ferry 900	Blue Mountain 300	Falmouth Station 200
Caraquet	Butternut Ridge 500	Lower Caraquet1,500	St. Paul 600	Blue Rock 200	First South 250
Caraquet	Calhoun 200	Lower Newcastle 250	St. Stephen2,836	Boylston 300	Five Islands 625
Caraquet	Cambridge 200	Lower Prince	Salisbury 300	Bridgeport1,200	Fourthy 220
Caraquet	Campbellton3,817	Tower Southhamp	Second Falls 200	Bridgeville 200	Fox River 250
Caraquet	Canterbury Station, 250	ton 200	Shediac1.442	Bridgewater2.775	Frankville 200
Caraquet	Cape Bald 300	Lower Woodstock 250	Sheffield 350	Brighton 300	Freeport 500
Cocagne	Caraguet 2.8001	McAdam Junction 1.000	Shippegan 500	Broad Cove	French Village 200
Colastream	Centreville000	McLeods Mills 250	Southampton 300	Chapel 300	Cobordus 400
Colastream	Chipman 350	Marysville 1.837	Springfield Vork 300	Marsh 200	Gabarouse 1.750
Colastream	Clair 200	Mascarene 300	Springhill 250	Brookfield 400	Gabarouse Lake 200
Cocagne	Clifton 200	Mechanics Settle-	Stonehaven 300	Brooklyn 300	Gays River 300
Cork	Coates Mill 200	ment 250	Sussex1,906	Brook Village 250	Georgeville 200
Cork	Coldstream 300	Menramood 300	Tabusintas 600	Brookville 300	Gillies Point 200
Cork	Coles Island 300	Middle Southamp-	Tracadie 1.500	Burnside 250	Glace Bay. 16.562
Reference 201 Norton 500 Annapolis Royal 1,019 Cheverie 200 Hantax 300 Haltax 300 Eel River Crossing 400 Notre Dame 400 Antigonish 1,787 Chignecto 200 Hantsport 686 Elgin 250 Oak Bay 150 Apple River 400 Christmas Island 300 Harmony Mills 200 Escuminac 330 Oak Point 200 Arcadia 300 Church Point 250 Havre Boucher 700 Fairville 2,000 Oromocto 250 Arichat 800 Clarkes Harbor 1,000 Hays River 200 Five Fingers 500 Pelletiers Mills 200 Arisaig 200 Clementsport 300 Hazel Hill 450 Florenceville 350 Pennfield Centre 600 Aspen 400 Clementsport 250 Hazel Hill 450 Clementsport 250 Hazel Hill 450 Clementsport 250 Hazel Hill 250 Clementsport 250 Hazel Hill 250 Clementsport 250 Cleme	Collina 350	ton 600	Tracey Station 250	Caledonia 300	Glencoe 650
Reference 201 Norton 500 Annapolis Royal 1,019 Cheverie 200 Hantax 300 Haltax 300 Eel River Crossing 400 Notre Dame 400 Antigonish 1,787 Chignecto 200 Hantsport 686 Elgin 250 Oak Bay 150 Apple River 400 Christmas Island 300 Harmony Mills 200 Escuminac 330 Oak Point 200 Arcadia 300 Church Point 250 Havre Boucher 700 Fairville 2,000 Oromocto 250 Arichat 800 Clarkes Harbor 1,000 Hays River 200 Five Fingers 500 Pelletiers Mills 200 Arisaig 200 Clementsport 300 Hazel Hill 450 Florenceville 350 Pennfield Centre 600 Aspen 400 Clementsport 250 Hazel Hill 450 Clementsport 250 Hazel Hill 450 Clementsport 250 Hazel Hill 250 Clementsport 250 Hazel Hill 250 Clementsport 250 Cleme	Cork 350	Milford 600	Upham 200	Caledonia, Queens 500	Glenholme 400
Reference 201 Norton 500 Annapolis Royal 1,019 Cheverie 200 Hantax 300 Haltax 300 Eel River Crossing 400 Notre Dame 400 Antigonish 1,787 Chignecto 200 Hantsport 686 Elgin 250 Oak Bay 150 Apple River 400 Christmas Island 300 Harmony Mills 200 Escuminac 330 Oak Point 200 Arcadia 300 Church Point 250 Havre Boucher 700 Fairville 2,000 Oromocto 250 Arichat 800 Clarkes Harbor 1,000 Hays River 200 Five Fingers 500 Pelletiers Mills 200 Arisaig 200 Clementsport 300 Hazel Hill 450 Florenceville 350 Pennfield Centre 600 Aspen 400 Clementsport 250 Hazel Hill 450 Clementsport 250 Hazel Hill 450 Clementsport 250 Hazel Hill 250 Clementsport 250 Hazel Hill 250 Clementsport 250 Cleme	Cormierville 500	Millerton 400	UpperDorchester 250	Cannes 200	Goldboro 500
Reference 201 Norton 500 Annapolis Royal 1,019 Cheverie 200 Hantax 300 Haltax 300 Eel River Crossing 400 Notre Dame 400 Antigonish 1,787 Chignecto 200 Hantsport 686 Elgin 250 Oak Bay 150 Apple River 400 Christmas Island 300 Harmony Mills 200 Escuminac 330 Oak Point 200 Arcadia 300 Church Point 250 Havre Boucher 700 Fairville 2,000 Oromocto 250 Arichat 800 Clarkes Harbor 1,000 Hays River 200 Five Fingers 500 Pelletiers Mills 200 Arisaig 200 Clementsport 300 Hazel Hill 450 Florenceville 350 Pennfield Centre 600 Aspen 400 Clementsport 250 Hazel Hill 450 Clementsport 250 Hazel Hill 450 Clementsport 250 Hazel Hill 250 Clementsport 250 Hazel Hill 250 Clementsport 250 Cleme	Coverdale 250	Millstream 400	Upper Gagetown 200	Canning 1,500	Grand Etang 400
Reference 201 Norton 500 Annapolis Royal 1,019 Cheverie 200 Hantax 300 Haltax 300 Eel River Crossing 400 Notre Dame 400 Antigonish 1,787 Chignecto 200 Hantsport 686 Elgin 250 Oak Bay 150 Apple River 400 Christmas Island 300 Harmony Mills 200 Escuminac 330 Oak Point 200 Arcadia 300 Church Point 250 Havre Boucher 700 Fairville 2,000 Oromocto 250 Arichat 800 Clarkes Harbor 1,000 Hays River 200 Five Fingers 500 Pelletiers Mills 200 Arisaig 200 Clementsport 300 Hazel Hill 450 Florenceville 350 Pennfield Centre 600 Aspen 400 Clementsport 250 Hazel Hill 450 Clementsport 250 Hazel Hill 450 Clementsport 250 Hazel Hill 250 Clementsport 250 Hazel Hill 250 Clementsport 250 Cleme	Dalhousie 1,650	Milltown1,804	Village St. Jean 250	Cape Augnet 300	Grand Mira So 300
Reference 201 Norton 500 Annapolis Royal 1,019 Cheverie 200 Hantax 300 Haltax 300 Eel River Crossing 400 Notre Dame 400 Antigonish 1,787 Chignecto 200 Hantsport 686 Elgin 250 Oak Bay 150 Apple River 400 Christmas Island 300 Harmony Mills 200 Escuminac 330 Oak Point 200 Arcadia 300 Church Point 250 Havre Boucher 700 Fairville 2,000 Oromocto 250 Arichat 800 Clarkes Harbor 1,000 Hays River 200 Five Fingers 500 Pelletiers Mills 200 Arisaig 200 Clementsport 300 Hazel Hill 450 Florenceville 350 Pennfield Centre 600 Aspen 400 Clementsport 250 Hazel Hill 450 Clementsport 250 Hazel Hill 450 Clementsport 250 Hazel Hill 250 Clementsport 250 Hazel Hill 250 Clementsport 250 Cleme	Dalhousie Juuction 200	Millville 300	Waterford1,450	Cape Negro 250	Grand Narrows 250
Reference 201 Norton 500 Annapolis Royal 1,019 Cheverie 200 Hantax 300 Haltax 300 Eel River Crossing 400 Notre Dame 400 Antigonish 1,787 Chignecto 200 Hantsport 686 Elgin 250 Oak Bay 150 Apple River 400 Christmas Island 300 Harmony Mills 200 Escuminac 330 Oak Point 200 Arcadia 300 Church Point 250 Havre Boucher 700 Fairville 2,000 Oromocto 250 Arichat 800 Clarkes Harbor 1,000 Hays River 200 Five Fingers 500 Pelletiers Mills 200 Arisaig 200 Clementsport 300 Hazel Hill 450 Florenceville 350 Pennfield Centre 600 Aspen 400 Clementsport 250 Hazel Hill 450 Clementsport 250 Hazel Hill 450 Clementsport 250 Hazel Hill 250 Clementsport 250 Hazel Hill 250 Clementsport 250 Cleme	Dawson Settlement 200	Miscou Harbour 250	Welsford 200	Cape North 350	Grand Pre 250
Reference 201 Norton 500 Annapolis Royal 1,019 Cheverie 200 Hantax 300 Haltax 300 Eel River Crossing 400 Notre Dame 400 Antigonish 1,787 Chignecto 200 Hantsport 686 Elgin 250 Oak Bay 150 Apple River 400 Christmas Island 300 Harmony Mills 200 Escuminac 330 Oak Point 200 Arcadia 300 Church Point 250 Havre Boucher 700 Fairville 2,000 Oromocto 250 Arichat 800 Clarkes Harbor 1,000 Hays River 200 Five Fingers 500 Pelletiers Mills 200 Arisaig 200 Clementsport 300 Hazel Hill 450 Florenceville 350 Pennfield Centre 600 Aspen 400 Clementsport 250 Hazel Hill 450 Clementsport 250 Hazel Hill 450 Clementsport 250 Hazel Hill 250 Clementsport 250 Hazel Hill 250 Clementsport 250 Cleme	Deer Island 1 500	Moores Mills 300	Westheld Beach 200	Taland 200	Granville Centre 300
Reference 201 Norton 500 Annapolis Royal 1,019 Cheverie 200 Hantax 300 Haltax 300 Eel River Crossing 400 Notre Dame 400 Antigonish 1,787 Chignecto 200 Hantsport 686 Elgin 250 Oak Bay 150 Apple River 400 Christmas Island 300 Harmony Mills 200 Escuminac 330 Oak Point 200 Arcadia 300 Church Point 250 Havre Boucher 700 Fairville 2,000 Oromocto 250 Arichat 800 Clarkes Harbor 1,000 Hays River 200 Five Fingers 500 Pelletiers Mills 200 Arisaig 200 Clementsport 300 Hazel Hill 450 Florenceville 350 Pennfield Centre 600 Aspen 400 Clementsport 250 Hazel Hill 450 Clementsport 250 Hazel Hill 450 Clementsport 250 Hazel Hill 250 Clementsport 250 Hazel Hill 250 Clementsport 250 Cleme	Derby 200	Mt. Carmel 200	Wickham 250	Catalone 200	Great Village 800
Reference 201 Norton 500 Annapolis Royal 1,019 Cheverie 200 Hantax 300 Haltax 300 Eel River Crossing 400 Notre Dame 400 Antigonish 1,787 Chignecto 200 Hantsport 686 Elgin 250 Oak Bay 150 Apple River 400 Christmas Island 300 Harmony Mills 200 Escuminac 330 Oak Point 200 Arcadia 300 Church Point 250 Havre Boucher 700 Fairville 2,000 Oromocto 250 Arichat 800 Clarkes Harbor 1,000 Hays River 200 Five Fingers 500 Pelletiers Mills 200 Arisaig 200 Clementsport 300 Hazel Hill 450 Florenceville 350 Pennfield Centre 600 Aspen 400 Clementsport 250 Hazel Hill 450 Clementsport 250 Hazel Hill 450 Clementsport 250 Hazel Hill 250 Clementsport 250 Hazel Hill 250 Clementsport 250 Cleme	De Wolfe Corner 200	Musquash 250	Windsor 200	Central New	Greenfield 200
Reference 201 Norton 500 Annapolis Royal 1,019 Cheverie 200 Hantax 300 Haltax 300 Eel River Crossing 400 Notre Dame 400 Antigonish 1,787 Chignecto 200 Hantsport 686 Elgin 250 Oak Bay 150 Apple River 400 Christmas Island 300 Harmony Mills 200 Escuminac 330 Oak Point 200 Arcadia 300 Church Point 250 Havre Boucher 700 Fairville 2,000 Oromocto 250 Arichat 800 Clarkes Harbor 1,000 Hays River 200 Five Fingers 500 Pelletiers Mills 200 Arisaig 200 Clementsport 300 Hazel Hill 450 Florenceville 350 Pennfield Centre 600 Aspen 400 Clementsport 250 Hazel Hill 450 Florenceville 350 Pennfield Centre 600 Aspen 400 Clementsport 250 Head of Jordan	Doaktown 400	Nashwaaksis 225	Woodstock3,856	Annan 300	Green Harbor 300
Reference 201 Norton 500 Annapolis Royal 1,019 Cheverie 200 Hantax 300 Haltax 300 Eel River Crossing 400 Notre Dame 400 Antigonish 1,787 Chignecto 200 Hantsport 686 Elgin 250 Oak Bay 150 Apple River 400 Christmas Island 300 Harmony Mills 200 Escuminac 330 Oak Point 200 Arcadia 300 Church Point 250 Havre Boucher 700 Fairville 2,000 Oromocto 250 Arichat 800 Clarkes Harbor 1,000 Hays River 200 Five Fingers 500 Pelletiers Mills 200 Arisaig 200 Clementsport 300 Hazel Hill 450 Florenceville 350 Pennfield Centre 600 Aspen 400 Clementsport 250 Hazel Hill 450 Florenceville 350 Pennfield Centre 600 Aspen 400 Clementsport 250 Head of Jordan	Dorchester1,080	Nelson 200	Youngs Cove 300	Centre Burlington 350	Green Hill 200
Reference 201 Norton 500 Annapolis Royal 1,019 Cheverie 200 Hantax 300 Haltax 300 Eel River Crossing 400 Notre Dame 400 Antigonish 1,787 Chignecto 200 Hantsport 686 Elgin 250 Oak Bay 150 Apple River 400 Christmas Island 300 Harmony Mills 200 Escuminac 330 Oak Point 200 Arcadia 300 Church Point 250 Havre Boucher 700 Fairville 2,000 Oromocto 250 Arichat 800 Clarkes Harbor 1,000 Hays River 200 Five Fingers 500 Pelletiers Mills 200 Arisaig 200 Clementsport 300 Hazel Hill 450 Florenceville 350 Pennfield Centre 600 Aspen 400 Clementsport 250 Hazel Hill 450 Florenceville 350 Pennfield Centre 600 Aspen 400 Clementsport 250 Head of Jordan	Douglass Harbor. 200	New Denmark 500	NOVA SCOTTA	Chaswood 200	Guyshorough 1 000
Reference 201 Norton 500 Annapolis Royal 1,019 Cheverie 200 Hantax 300 Haltax 300 Eel River Crossing 400 Notre Dame 400 Antigonish 1,787 Chignecto 200 Hantsport 686 Elgin 250 Oak Bay 150 Apple River 400 Christmas Island 300 Harmony Mills 200 Escuminac 330 Oak Point 200 Arcadia 300 Church Point 250 Havre Boucher 700 Fairville 2,000 Oromocto 250 Arichat 800 Clarkes Harbor 1,000 Hays River 200 Five Fingers 500 Pelletiers Mills 200 Arisaig 200 Clementsport 300 Hazel Hill 450 Florenceville 350 Pennfield Centre 600 Aspen 400 Clementsport 250 Hazel Hill 450 Florenceville 350 Pennfield Centre 600 Aspen 400 Clementsport 250 Head of Jordan	Douglastown 500	New Jerusalem 250	NOVI SCOTIA	Chelsea 300	Guysborough.
Reference 201 Norton 500 Annapolis Royal 1,019 Cheverie 200 Hantax 300 Haltax 300 Eel River Crossing 400 Notre Dame 400 Antigonish 1,787 Chignecto 200 Hantsport 686 Elgin 250 Oak Bay 150 Apple River 400 Christmas Island 300 Harmony Mills 200 Escuminac 330 Oak Point 200 Arcadia 300 Church Point 250 Havre Boucher 700 Fairville 2,000 Oromocto 250 Arichat 800 Clarkes Harbor 1,000 Hays River 200 Five Fingers 500 Pelletiers Mills 200 Arisaig 200 Clementsport 300 Hazel Hill 450 Florenceville 350 Pennfield Centre 600 Aspen 400 Clementsport 250 Hazel Hill 450 Florenceville 350 Pennfield Centre 600 Aspen 400 Clementsport 250 Head of Jordan	Dupeys Corner 400	New Mills 200	Advocate Harbor 850	Chester 900	Intervale 300
Elgin	East Florenceville 201	NORTH ESK 500	Amnerst8,973	Chester Basin 300	Halliax40,019
Elgin	Fel River Crossing 400	Notre Dame 400	Annapolis Koyal 1,019	Cheverie 200	Hammonds Plains _ 300
Escuminac 330	Elgin 250	Oak Bay 150	Apple River 400	Christmas Island 300	Harmony Mills 200
Fairville	Escuminac 330	Oak Point 200	Arcadia 300	Church Point 250	Havre Boucher 700
Fiver Pingers	Fairville2,000	Oromocto 250	Arichat 800	Clarkes Harbor1,000	Hays River 200
Foxcreek	Five Fingers 500	Pelletiers Mills 200	Arisaig 200	Clementsport 300	Hazel Hill 450
Fredericton	Foxcreek 500	Penobsquis 300	Atwoods Brook 200	Cleveland 200	River 600
PetersvilleChurch 200 Avonport 220 Collingwood Margarets Bay 300 Gagetown 233 Petit Rocher 250 Baccaro 250 Corner 300 Heatherton 200 Gardners Creek 200 Point de Bute 250 Baddeck 1,650 Conneauville 400 Hebron 500 Gibson 800 Point de Bute 250 Baddeck 1,650 Conneauville 400 Hebron 500 Gibson 800 Prince William 200 Balleys Brook 250 Conquerall Banks 275 Hopewell 300 Grand Anse 700 Quaco 990 Balmoral Mills 250 Dalhousie East 250 Hortonville 425 Grand Anse 700 Quaco 990 Barneys River 400 Dartmouth 5,058 Ingonish 400 Grand Manan 3,000 Red Rapids 200 Barneys River 400 Dartmouth 5,058 Ingonish 400 Grand Manan 3,000 Red Rapids 200 Barneys River 400 Dartmouth 5,058 Ingonish 400 Green River Station 200 Rexton 600 Barrington 700 Denmark 200 Inverness 2,719 General Rapids 200 Rexton 600 Barrington 700 Denmark 200 Inverness 200 Hampstead 250 Richibucto 871 Barss Corners 400 Dilgby 1,247 Jedore Oyster Hampton 554 Richmond Corner 275 Barss Corners 400 Dilgby 1,247 Jedore Oyster Harvey 1,800 Robichaud 360 Bastron 250 Doctors Cove 200 Judique 300 Harvey Station 200 Rogersville 1,000 Bay St. Lawrence 400 East Bay 250 Corner 250 Corner 250 Robichaud 360 Bay St. Lawrence 400 East Bay 250 Corner 250 Corner 250 Corner 250 Robichaud 360 Bay St. Lawrence 400 East Bay 250 Corner 250	Fredericton 7,208	Perth 200	Auburn 200	Clyde River 300	Head of St.
Junction 350 Petiticodiac 750 Aylesford 350 Corner 300 Heatherton 200 Gagetown 233 Petit Rocher 250 Baccaro 250 Comeauville 400 Hebron 500 Gardners Creek 200 Point de Bute 250 Baddeck 1,650 Conns Mills 200 Herring Cove 325 Glassville 200 Prince William 200 Baker Settlement 200 Dathousie East 250 Hopewell 300 Glassville 200 Prince William 200 Balmoral Mills 250 Dalhousie East 250 Hubbards 450 Grand Anse 760 Quaco 900 Balmoral Mills 250 Dalhousie West 250 Hubbards 450 Grand Manan 3,000 Red Rapids 200 Barneys River 400 Dartmouth 5,058 Ingonish 400 Grand Manan 3,000 Red Rapids 200 Barneys River 400 Dartmouth 5,058 Ingonish 400 Green River Station 200 Rexton 600 Barrington 700 Deep Brook 400 Inverness 2,719 Mampstead 250 Richibucto 871 Barrington 700 Deenver 200 Irish Cove 300 Green River 250 Richibucto 871 Barrington 700 Descouse 300 Isaacs Harbor 500 Hardhand 844 Riverside 250 Bass River 300 Dominion 2,589 Jordan Branch 250 Harvey 1,800 Robichaud 360 Bayriett 300 Dominion 2,589 Jordan Branch 250 Harvey Station 200 Rogersville 200 Bay St. Lawrence 400 East Bay 250 Corner 250 C	Fredericton	PetersvilleChurch 200	Avonport 220	Collingwood	Margarets Bay 300
Sactor Source S	Junction 350	Petitcodiac 750	Aylesford 350	Corner 300	Heatherton 200
Sibson 800 Port Elgin 800 Baileys Brook 250 Conquerall Banks 275 Hopewell 300	Gardners Creek 200	Point de Bute 250	Baccaro 250	Comeauville 400	Hebron 500
Glassville	Gibson 800	Port Elgin 800	Baileys Brook 250	Conquerall Banks 275	Honewell 325
Grand Anse	Glassville 200	Prince William 200	Baker Settlement 200	Dalhousie East 250	Hortonville 425
Grand Hains 1,250 Randolph 300 Barneys River 400 Dartmouth 5,058 Ingonish 400 Grand Manan 3,000 Red Rapids 200 Barneys River 200 Green River Station 200 Rexton 600 Barneys River 200 Deep Brook 400 Inverness 2,719 Graf Shemoguc 300 Rexton 600 Barrington 200 Rexton 600 Barrington 200 Hampond Vale 200 Richibucto 871 Barrington 200 Hampstead 250 Richibucto Village 300 Passage 500 Descouse 300 Isaacs Harbor 500 Hampton 554 Richmond Corner 275 Barss Corners 400 Diligent River 300 Jodgin Mines 500 Hartland 844 Riverside 250 Bass River 300 Dominion 2,589 Jordan Branch 250 Harvey 1,800 Robichaud 360 Baxters Harbor 200 Dominion 0,6 200 Judique 300 Harvey Station 200 Rogersville 1,000 Bay St. Lawrence 400 Earltown 300 Kemptville 200 Hopewell Hill 200 Round Hill 300 Bear River 1,475 E. Chezzetcook 600 Kentville 2,304 Hopewell Hill 200 Rusagornis 200 Bedford 600 East Bay 255 Kingsbury 225 250 Dominan 2,580 Corner 250 Rogersville 2,004 Rogersville 2,004 Rogersville 2,004 Rogersville 2,005 Rogersvill	Grand Anse 700	Quaco 900	Balmoral Mills 250	Dalhousie West 250	Hubbards 450
Grant Arkania 300 Renous River 200 Bathleys River 200 Denmark 200 Inverness 2,719	Grand Manan 3 000	Randolph 300	Barneys River 400	Dartmouth5,058	Ingonish 400
Creen River Station 200 Rexton 600 Barrington 700 Denver 200 Isla Cove 300 Hammond Vale 200 Richibucto 871 Barrington Denver 200 Isla Cove 500 Hammond Vale 250 Richibucto 871 Barrington Denver 200 Isla Cove 500 Denver 200 Isla Cove 200 Isla Cove 200 Richibucto Richibucto	Grant Shemogue 300	Renous River 200	Station 200	Deep Brook 400	Inverness2,719
Hammond Vale	Green River Station 200	Rexton 600	Barrington 700	Denver 200	Iron Mines 200
Hampstead	Hammond Vale 200	Richibucto 871	Barrington	Descouse 300	Isaacs Harbor 500
Harcourt	Hampstead 250	Richibucto Village 300	Passage 500	Digby1,247	Jeddore Oyster
Hartland	Harcourt 400	River Charle 275	Barton	Diligent River 300	Ponds 300
Harvey	Hartland 844	Riverside 250	Bass River	Dominion 2 500	Joggin Mines 500
Harvey Station	Harvey1,800	Robichaud 360	Baxters Harbor 200	Dominion No. 6. 200	Tudique 300
Hillsborough	Harvey Station 200	Rogersville1,000	Bayfield 250	Dunvegan 200	Kemptville 200
Hopewell Cape. 300 Round Hill. 300 Bear Point 200 East Bay 250 Corner 250 Hopewell Hill. 200 Rusagornis. 200 Bearly 300 Eastern Harbor 1,000 Kingsbury 225 Inkerman 500 Sackville. 2,039 Bedford 600 Eastern Passage 250 Kingsbury 225 Sackville. 2,039 Bedford 600 Eastern Passage 250 Kingsbury 225	Hullsborough	Rolling Dam 500	Bay St. Lawrence 400	Earltown 300	Kennetcook
Hopewell Hill.	Hopewell Cape. 300	Round Hill 300	Bear Point 200	East Bay 250	Corner 250
Inkerman 500 Sackville 2,039 Bedford 600 Eastern Passage 250 Kingspans	Hopewell Hill. 200	Rusagornis. 200	Beauly 300	Eastern Harbor 1 000	Kingshury
	Inkerman 500	Sackville2,039	Bedford 600	Eastern Passage 250	Kinsmans
987 Belle Cote 250 E. Port Medway 200 Corners 300	Irishtown 200	St. Andrews 987	Belle Cote 250	E. Port Medway 200	Corners 300

NOVA SCOTIA Co.	nt'd	NOVA SCOTTA	Cont'd	NOVA SCOTTA	C422	NOVA GGOTTA		i	95
La Have	200	Millsville	200	Pivor Donnia	Cont'd.				
La Have Island Lake Vale.	200	Mill Village	721	Centre	300	Upper Rawdon	350	Barrys Bay	300
Lake Vale.	350	Milton	1,100	River Hebert	400	Upper Stewacke Victoria Beach	250	Bartonville	275
L'Ardoise	750	Minudie	600	River John	500	VICTORIA MITHES	330	i Barn	3/17
Lawrencetown	280	Mira Cut	350 350	River Philip	200	Walkerville	200	Battersea	325
L'Ardoise Larrys River Lawrencetown Lingan Lin wood Liscomb	200	Mochelle	200	Riverside Corner	200	Victoria Mines. Walkerville. Walton Waterville Waverley Wedgeport. Wentworth Stati Wentzells Lake West Bay Westche ter. West New Annar West Newdy Quoddy Quoddy	400	Bayfield	477
Lingan Lingan Liscomb Liscomb Little Bras d'Or Little Brook Little Dover Little Lorraine Little Narrows Little River Little River	200	Moose River	200	Rockingham	200	Waterville	300	Baysville	235
Liscomb	500	Gold Mines	400	Station	200	Waverley	600	Reachville	500 550
Little Brasd'Or	200	Morristown	200	Rocklin	200	Wedgeport	1,392	Beamsville	1.096
Little Dover	300	Mount Hanly	200	Rockville	200 250	Wentworth Stati	on. 700	Bearbrook	200
Little Lorraine	500	Mulgrave	700	Round Hill.	200	West Ray	200	Beaverton	1,015
Little Narrows	300	Musquodoboit		Sable River	200	Westche ter	200	Be grave	564
Little River	350	Harbor Necum Teuch Neils Harbor New Aberdeen	500	St. Bernard	200	West New Annar	300	Belle River.	520
Little River Cheticamp	500	Neils Harbor	300	St. Peters	1,000	West Newdy	0.50	Belleville	9,876
Little River Mus-	000	New Aberdeen.	600	Salt Springs	400	Westport	250	Belmont	620
quodoboit	550	New Albany.	200	Sambro	400	West Pubnico.	1.150	Belwood	250
Liverpool2	,109	New Germany	1,500	Sandford	250	West River.	200	Berkeley.	220
Loch Lomond	250	New Harbor	250	Sandy Cove	400 500	West River Stat	ion 200	Berlin	15,196
Lockeport	784	Newport.	400	Saulnierville.	400	Westville	1,000	Berwick	230
Loganville	250	Newport Landing	500	Scotch Village	200	Weymouth North	1 500	Billings Bridge	250
Londonderry1	,500	New Ross	200	Scotts Bay	250	White Rock Mills	3 200	Biscotasing.	500
Long Point	250	New Waterford	3,000	Seabright	300	Whycocomagh	400	Blackburn	218
Little River Musquodoboit. Liverpool	.006	Nine Mile River.	300	Scotch Village Scotts Bay Seabright Selma Sheet Harbor Shelburne.	375	West New Annar West Newdy Quoddy Westport West Pubnico. West River West River West River West Pubnico. West River Mest River West River West New North West North White Rock Mill Whycocomagh Wilmot Windsor Windsor Windsor Windsor Wolfville Yarmouth ONTARIO Aberdeen Acton	2 452	Blair	220
Louisdale	200	Noel	300	Shelburne.	1.435	Windsor Junction	200	Renheim	1 397
Lower Argyle	825	No. Brookfield	200	Sherbrooke	500	Wine Harbor	200	Blind River	2.558
Lower Barneys	200	No. E. Harbor	250	Shinimecas Bridge	e 250	Wolfville	1,458	Bloomfield	610
Lower East	200	No River	300	Shunacadie.	200	Yarmouth	6,600	Bloomsburg	218
Pubnico	300	No. Salem	200	Sluice Point	250	ONTARIO) [Bluevale	704
Lower Economy	200	No. Sydney	5,418	Somerset	240	01,11,11		Bobcavgeon	1.000
Lower l'Ardoise	300	Osborne	200	Sonora	300	Aberdeen	275	Bolton	712
Lower Sackville	300	Uwis Head Harbor	200	Southampton	225	Acton	1,720	Bondhead.	500
Lower Sandy Point	250	Oxford	1.392	South Bay	250	Agincourt.	325	Bookton	185
Lower Selmah	200	Paradise	350	So. Farmington	250	Ahmic Harbor	200	Boston	270
Lower Ship	250	Parrsboro	2,856	So. Maitland	300	Ailsa Craig	568	Bothwell	690
Towar Stawiacka	250	Petite de Grat	250	So. Ohio	300	Alexandria	2,323	Bourget	560
· Lower West	000	Petite Riviere	330	Springhaven	200	Algoma Mills	200	Bracebridge	2 776
Pubnico	250	Bridge	600	Spring Hill	5,713	Allenford	375	Bradford	946
Lower Wood		Pictou	3,179	Springville	350	Alliston	1,279	Braeside	600
Harbor	600	Pleasant Bay	275	Spry Bay	200	Alma	250	Brampton	3,412
Lyons Brook	200	Pleasant River.	250	Stewartdale	350	Almonte	675	Brantiord	23,132
McKinnons Har-	200	Pleasant Valley	400	Stewiacke	633	Alvinston	806	Breslau	225
bor	300	Point Cross	_ 200	Summerville.	300	Ameliasburg.	275	Bridgeburg	1,770
Mabou	600	Portapique.	200	Sunnybrae	200	Amherstburg	2,560	Bridgenorth	220
Mahone Ray	230 1 800 1	Port Dunerm	200	Sydney Sydney Mines	7 470	Amigari Ancaster	400	Bridgeport	650
Main-a-Dieu	300 1	Port George	200	Sydney River.	200	Angus	275	Bright	480
Pubnico Lower Economy Lower l'Ardoise Lower Onslow Lower Sandy Point Lower Sandy Point Lower Selmah Lower Selmah Lower Ship Harbor Lower West Pubnico Lower Wood Harbor Lunenburg Lyons Brook McKinnons Har- bor Mabou Maccan Mahone Bay Main-a-Dieu Maitland Maitland, Hants Maplewood Marble Mountain Margaree Harbor Margaretsville. Marie Joseph Mario Berdge.	600]	Port Greville	_ 450 '	Tancook Island	700	Appin	200	Brighton	1,320
Maitland, Hants	600	ort Hastings.	- 600	l'angier	- 300	Apple Hill	360	Britannia Bay	275
Marble Mountain	300 1	Port Hillford	500	ratamagouche The Falls	300	Arden	900	Bronte	350
Margaree Harbor	500 1	Port Hillford Port Hood Port Joli Port La Tour	1,078	Thompsons	2000	Arkona	424	Brooklin	550
Margaretsville Marie Joseph Marion Bridge	300 I	Port Joli	_ 200	_Station	250	ArnpriorArthurAshton	4,405	Brougham	300
Marie Joseph	500 I	Port La Tour	_ 200	Thorburn	- 500	Arthur	1,102	Brownsville	425
Marion Bridge.	250 1	Port Lorne	075	Lidnish	250	Ashton	250 1	Bruceneid.	680
Martins River	200 F	Port Malcolm.	350	Comkinsville	200 4	Atwood	500	Brussels	902
Mass Town 2	250 I	ort Medway	_ 600	Toney Mills	_ 200 A	Auburn	240]	Burford	850
Mavillette 2	200 E	ort Morien.	_1,000	Corbay	_ 300 A	Aultsville	1,900]	Burgessville	325
Meaghers Grant 2	250 E	Portuguese Cove	- 600	Corbrook	300 A	Aurora	22011	Burks Falls	1 976
Merigomish	OU E	ort Williams	550	Crenton	1.749	vonmore	470	Burritts Rapids	200
Meteghan 1.0	000 F	oulamond	200	Cruro	_6,107 A	Aylmer	2,102	Byng Inlet	500
Meteghan River 4	100 F	rinceport	200 7	Cusket	_ 450 A	Луг	- 823	Cache Bay	889
Meteghan Station 2	50 F	rospect	700	wo Rivers	_ 200 A	lyton	500	ainsville	375
Middle Lahave	P	ubnico Head	- 500 L	Jpper Kennetcook	200 1	Railiehoro	150	aintown	400
Middle Musquado-	C	ug wasu	300 I	Jpper Musquad	0- F	Ballinafad	180	Caledon	210
Marie Joseph Marion Bridge. Marriotts Cove Martins River Mass Town Mavillette Meaghers Grant Melvern Square. Meteghan Meteghan River Meteghan River Meteghan Station Meteghan Station Middle Lahave Ferry Middle Musquodoboit	OOLR	awdon	250	boit	_ 300 E	Baltimore.	300	Caledon East	315
Middleton 8	27 R	leserve Mines	1,200 T	Jpper New Harbo	r 200 H	Bancroft.	625	Caledonia.	952
Milford Station 5	00 R	iver Bourgeois.	. 950 T	Ipper Newport	_ 200 F	Bancroft. Barrie Barriefield	520 (Camden East	700
Meteghan River 4 Meteghan River 4 Meteghan Station 2 Middle Lahave Ferry	oolk	Aver Dennis	. 30010	pper rort La rou	L 000(I		020](200

ONTARIO Cont'd.	ONTARIO Cont'd.	ONTARIO		ONTARIO		ONTARIO Cont'd.
	00 Curran 3	25 Fort Frances	1,611	Islington	215	Martintown 400
Campbellford 3,0	1 Cutler 4	00 Fort William				Massey 864
Campbellville 2	Dashwood 4	O Fournier	325	Jerseyville	260	Matheson. 400 Mattawa 1,524 Maxville. 759 Meadowale 220 Meaford 2,811 Melbourne 350 Merlin 340
Cannamore 2	0 Deer Park 9	O Foxboro	335	Jordan Station.	190	Mattawa1,524
Cannitton 2	5 Delaware 3	Frankford	720	Kakabeka rans	200	Mattawa 1,524 Maxville 759 Meadowvale 220 Meaford 2,811 Melbourne 350 Merlin 340 Merrickville 993 Merritton 1,670 Metcalfe 435 Mickshurg 200
Cannington 94	O Dolto	O Freelton	200	Keene	430	Meaford 2811
Cardinal 11	1 Denbigh 2	O Fullarton	180	Keewatin	1.242	Melbourne 350
Cardilla	O Depot Harbor 6	7 Galt	10.299	Kelvin	230	Merlin 340
Carleton Place. 3.62	1 Deseronto2.0	3 Gananogue	3.804	Kemptville	1,192	Merrickville 993
Carlisle20	0 Dickinsons	Garden Hill	200	Kenmore	220	Merritton1,670
Carp 30	0 Landing 2	5 Garden Island	150	Kenora	6,158	Metcalfe 435
Casselman 95	6 Dominionville 2	0 Garden River.	500	Kerwood	270	Micaville 150
			300	Killaloe	435	Micksburg 200
Cataraqui 27	5 Doon 4 5 Dorchester Station 5	O Georgetown	1,583	Killaloe Station	450	Middlemiss 135
Cavan 21 Cayuga 73	5 Dorchester Station . 5	O Glen Allan	230	Kinarney	215	Middleville 215
			841	Kincardine	1 056	Metcalfe. 435 Micaville 150 Micksburg 200 Middlemiss 135 Middleport 210 Middleville 215 Midland 4,663 Milford 265 Millbank 420 Millbridge 230 Mill Brook 793
Cedar Grove	Drayton 7	6 Glen Morris	175	King	480	Mildmay 1.050
Centralia 27	5 Dresden1.5	1 Glen Robertson	285	Kingston	18,874	Milford 265
Centreville 25	0 Drumbo 5	O Glen Williams	430	Kingston Mills.	210	Millbank 420
Chantry 20	0 Dryden 7	5 Goderich	4,522	Kingsville	1,427	Millbridge 230
Chapleau1,50	0 Duart 1	5 Goodwood	310	Kinmount	600	Mill Brook 793
Charlton 25	ODublin 3	Gore Bay	703	Kirkfield.	325	Mille Roches 625
Chatham10,77	0 Douglas 55 0 Drayton 77 5 Dresden 1,5 0 Drumbo 55 0 Dryden 7 0 Duart 10 0 Dublin 3 0 Dunchurch 3 1 Dundalk 6	Gorrie	580	Kirkton	200	Mille Roches 625 Milton West 1,654
Chelmsford 55	O Dundas	Gowganda	15U	Komoka	275	Mimico 826
Cheltenham 25	0 Dundela	O Grand Valley	775	Lakefield	1 307	Minden 200
Chepstow 25	0 Dungannon	O Grand View	900	Lakeport	210	Missanabie. 200
Cherry Valley 17	5 Dunnville2.8	1 Granton	440	Lambeth	300	Mitchell1.766
Chesley1,73	4 Dunvegan 2	O Gravenhurst	1,624	Lambton Mills.	525	Mill Brook 793 Mille Roches 625 Miller Roches 625 Miller West 1,654 Milvorton 826 Mimico 1,373 Minden 200 Missanabie 200 Mitchell 1,766 Mond 200 Monkton 370 Moorefield 335 Mooretown 260 Mose Creek 415 Morewood 300 Morrisburg 1,696 Morrisburg 1,696 Morrisburg 1,696 Mount Brydges 435 Mount Brydges 435 Mount Hope 220 Mount Hope 220 Mount Pleasant 450 Mount Pleasant 240 Nairn Centre 450 Nanticoke 225 Napanee 2,807 Napier 270 Navan 310 Newstor 469
Chesterville 88	3 Durham1,5	Greenwood	200	Lanark	737	Monkton 370
Chippawa. 70	7 Dutton 8	6 Grimsby	1,669	Lancaster	624	Moorefield 335
Christian Island 20	Earlscourt 4	O Guelph	15,175	Langton	225	Mooretown 260
Plondon 25	DE Toronto 2	O Haddo	1 106	Lansdowne.	420	Moose Creek 415
Clandehove 23	O Eastwiew 2 1	Hailerburg	2 974	Larger Lake	429	Morewood 300
Claremont 55	0 Echo Place	0 Haliburton	482	Laurentian View	450	Morrichurg 1606
Clarence Creek 30	0 Eganville1.1	9 Hamilton	81.969	Leamington	2.652	Morriston 320
Clarksburg. 74	0 Egmondville 7	0 Hampton	270	Lefaivre	240	Morton 265
Clarkstown 32	5 Elgin 3	5 Hanover	2,342	Lefroy	230	Moulinette 320
Clifford 59	5 Elginburg. 1	Harbord	160	Lindsay	6,964	Mount Albert 530
Clinton2,25	4 Elk Lake1,0	0 Harrisburg	150	Linwood	475	Mount Brydges 435
Cobdan 74	8 Elmira1,7	Harriston	1,491	Lions Head	520	Mount Dennis 500
Coboconk	O Elmwood 5	OU Harrow	430	Liste	215	Mount Forest1,839
Cobourg 5.07	4 Elora 1 1	7 Harwood	230	Listower	300	Mount Pleasant
Cochrane 1,71	5 Embro 4	7 Hastings.	883	Little Current	1.208	Brant 450
Cockburn Island 27	5 Embrun 5	Havelock	1,436	Lombardy	280	Mount Pleasant.
Colborne 99	9 Emo 3	00 Hawkesbury	4,400	Londesborough	240	Durham 240
Coldwater 64	9 Emsdale 2	0 Hawkestone.	365	London.	46,300	Nairn Centre 450
Collinguand 7 06	8 Englehart.	O Hawkesville	230	London Junctio	n 320	Nanticoke 225 Napanee 2,807 Napier 270 Navan 310 Neustadt 460 Newbore 460
Colling Bay	O Enterprise 4	Hawthorne	150	Longtord Mills.	320	Napanee2,807
Comber 63	0 Erindale	O Helen Mine	200	L'Orignal	1,347	Napier 270
Conestogo 43	0 Ernestown Station 2	0 Hensall	702	Lotus	215	Navan 310
Connaught 2	8 Englenarr	3 Hepworth	309	Lucan	709	Newhoro 460
Consecon 45	0 Ethel 2	00 Hespeler	2,368	Lucknow	967	Newburgh 465
Conway 15	0 Everett 1	5 Hickson	220	Lunenburg	225	Newboro 469 Newburgh 465 Newbury 377 Newcastle 655 New Dundee 340 New Hamburg. 1,484 Newington 360
Cookstown 62	5 Everton 1	0 Highgate	480	Lyn	540	Newcastle 655
Constaur 34	Excelsior 3	UHighland Cree	k 220	Lynden Lyndhurst	480	New Dundee 340
Copper Cliff 3.09	7 Fairfield Fact	os Hillsburgh	520	Lyndhurst	275	New Hamburg1,484
Corbetton 20	O Falls View 2	5 Hilton	433 250	Lynedoch	230	Newington 360
Cordova Mines 20	O Farrans Point 2	O Holland Landi	ng 502	McMillane Con	270 ners 330	Newington 360 New Liskeard 2,108 New Lowell 270 Newmarket 2,996
Cornwall6,59	8 Fenelon Falls1.0	3 Holstein	400	Madoc	1 058	New Lowell 270
Corunna 23	0 Fergus1,5	Hornby	175	Magnetawan	300	Newton 220
Cottam 20	0 Finch 4	1 Hornings Mill	s 365	Maitland	210	Newton Brook. 230
Courtland 32	0 Fingal 3	60 Humber Bay.	370	Mallorytown	440	INEW Toronto 350
Courtland 37 Courtright 37 Credit Forks 24	5 Fitzroy Harbor 2	Humberstone.	450	Malton	315	New Toronto 350 Niagara on the
Crediton 24	O Flotcher 5	Huntley	310	Malvern	220	Lake1,318
Creemore 6	3 Floradale	nuntsville	2,358	Manchester	120	Lake1,318 Niagara Falls9,248 Nilestown200
Creighton.	0 Florence	O Ingereoli	1 762	Manitamani	270	Nilestown 200
Crysler 5	0 Fonthill	0 Inglewood	360	Manotick	450	Nipigon 500
Culloden 2	5 Fordwich 6	00 Inkerman	320	Maple	450	Norham 215
Cumberland 3	Forest1,4	Innerkip.	330	Markdale	Q25	Nipigon 500 Nobleton 215 Norham 206 Norman 300 Norman 300
Cummings	Foresters Falls 2	0 Innisville	200	Markham.	900	North Augusta 530
Gundles 1,70	5 Fitzroy Harbor 2 0 Flesherton 5 00 Fletcher 1 3 Floradale 2 0 Florence 3 0 Forthill 3 5 Fordwich 6 0 Forest 1,4 Foresters Falls 2 2 Formosa 4 4 Fort Erie 1,1	00 Inwood	380	Marlbank.	630	North Bay
Cundles	of Fort Ene1,1	[6] Iroquois	849	Marmora	866	North Bay7,737 North Cobalt 200

ONTARIO Cont'd. North Gower 320 North Lancaster 275 North Port. 200 North Toronto. 5,362 Norwich 1,112 Norwood 811 Nottawa 260 Novar. 350 Oakland 200 Oakville 2,372 Oakwood 280 Odkiald 200 Oakville 2,372 Oakwood 80 Odksaa 740 Oil City 275 Cil Springs 646 Omemee 505 Orangeville 2,340 Orillia 6,828 Orland 170 Orleans 200 Orono 830 Orwell 315 Osceola 200 Orono 830 Orwell 315 Osceola 200 Orshawa 7,436 Osnabruck Centre. 420 OTTAWA 87,062 Otterville 780 Owen Sound 12,588 Oxford Mills 450 Paisley 830 Pakenham 600 Palmerston 1,665 Paris 4,098 Park Hill 1,289 Parry Sound 3,429 Parly Sound 3,429 Pelee Island 620 Pembroke 5,626 Pembroke 5,626 Pembroke 5,626 Pendleton 225 Penetanguishene 3,588 Perth 3,578 Peterboro 18,360 Petrolia 3,518 Phelpston 20 Pehllipsville 330 Pickering 850 Picton 3,564 Plainfield 225 Plantagenet 475 Plantagenet 475 Port Dalbousie 1,152 Port Daver 1,138 Port Elgin 1,235 Port Elgin 1,235 Port Lambton 30 Port Merwiell 750 Port Carling 378 Port Colborne 1,624 Port Perry 1,148 Port Robinson 520 Port Howessanley 891 Prot Stanley 891 Pro	ONTARIO C	1 ONTENTO G III		
North Gower 320	ONTARIO Cont'd.	ONTARIO Cont'd.	ONTARIO Cont'd.	P. E. I. Cont'd.
North Lancaster 275	Rankin 200	Springford 300	Wallaceburg3,438	Hunter River 250
North Port. 200	Renfrew 3 846	Stamford 310	Walsingham Contro 350	Kensington 500
North Toronto5,362	Richards Landing 300	Staples 300	Wardsville 240	Montague 1 100
Norval 375	Richmond 428	Stayner1,039	Warkworth 700	Montrose 200
Norwood 911	Richmond Hill. 652	Steelton3,936	Warren 500	Mount Stewart 300
Nottawa 260	Ridgetown 1,954	Stevensville 250	Washago 200	Murray Harbor 200
Novar 350	Ripley 700	Stewart Town 900	Waterford 1083	Ormall 250
Oakland 200	Roblin 160	Stirling 848	Waterloo4,360	Pinette 400
Oakville2,372	Rockland3,397	Stittville 250	Watford1,092	Pisquid 230
Odessa 740	Rockport 310	Stony Creek 530	Waubaushene 800	St. Eleanors 200
Oil City 275	Rockwood 620	Stouffville 1 034	Welland 5318	St. Louis. 200
Oil Springs 646	Rodney 676	Straffordville 270	Wellandport 225	Stanley Bridge. 350
Omemee 505	Rosemont 165	Stratford 12,946	Wellesley 650	Suffolk 200
Orangeville2,340	Rosseau 250	Strathcona 370	Wellington 785	Summerside2,678
Orland 170	Routhier 250	Streetsville 543	Westboro 550	Tignish 450
Orleans 200	Russell 650	Stroud 200	W. Flamboro 325	Tyne Valley 200
Oreno 830	St. Amour 200	Sturgeon Bay 200	W. Lorne 740	Valleyfield 200
Orwell 315	St. Andrews W 200	Sturgeon Falls2,199	Westmeath 250	Victoria 400
Osceola 7 436	Prescott 300	Summerstown 200	Weston1,8/5	OTTEPEC
Osnabruck Centre. 420	St. Catharines 12.484	Summerstown Station 260	W. Toronto12.000	Odenec
OTTAWA87,062	St. Clements 300	Sunderland 650	Wheatley 650	Abbotsford1,000
Otterville 780	St. Davids 225	Sundridge 420	Whitby2,248	Abenakis Springs 200
Owen Sound12,558	St. Eugene 400	Swapper 753	White Piver 225	Actor Vale 1402
Paicley 830	St Teidore	Swansea 300	Whitevale 200	Adamsville 375
Pakenham 600	de Prescott 550	Sydenham 630	Whitney 800	Adstock 350
Palmerston1,665	St. Jacobs 520	Tagona 350	Wiarton2,266	Agnes 417
Paris4,098	St. Marys3,388	Tamworth 850	Wicklow 350	Amqui1,070
Park Hill1,289	St Paschal Raylon 250	Tayistock 981	Wikwemikong 400	Ange Gardien 1 450
Pelee Island - 620	St. Thomas14.054	Tecumseh 300	Williamsburgh. 350	Ange Gardien de
Pembroke5,626	St. Williams 215	Teeswater 854	Williamsford 275	Rouville 400
Pendleton 225	Salem 470	Teeterville 200	Williamstown 640	Angers 450
Penetanguishene3,588	Sand Point 350	Thomasville 807	Winchester 1 143	Armagh 1 000
Peterboro 18 360	Sarnia 9.947	Thedford 559	Winchester Springs, 360:	Arthabaska1.458
Petrolia3,518	Sault Ste.	Thessalon1,945	Windham Centre 265	Arthurville 300
Phelpston 220	Marie10,984	Thornbury 793	Windsor17,829	Arundel 250
Phillipsville 330	Scarboro Junction _ 220	Thorndale 550	Wingham2,238	Asbestos2,224
Pickering 850	Schrieber 600	Thornlee 300	Wolfe Island 550	Athelstan 200
Plainfield 225	Scotland 450	Thornton 250	Wolverton 200	Avignon1,000
Plantagenet 475	Seaforth1,983	Thorold2,273	Woodbridge 607	Ayers Cliff 316
Plattsville 650	Sebringville 535	Tilbury, Essex 406	Woodstock9,320	Aylmer3,109
Plevna 205	Seeleys Bay 230	Tilbury, Kent1,308	Woodville 394	Ragotville 1.011
Point Anne	Selkirk 350	Tiverton 340	Worthington 200	Ba e St. Paul1,857
Pontypool 370	Severn Bridge 275	Todmorden 400	Wroxeter 366	Baillargeon 350
Port Arthur 11,220	Shakespeare 400	Toledo 450	Wychwood 700	Barachois de
Port Burwell 750	Shallow Lake 509	Tomstown 200	Wyebridge 275	Barnston 200
Port Carling 378	Sharbo Take	Tottenham 517	Vyoring 509 Varker 475	Bas du Sault 250
Port Credit 575	Sharpton 200	Trenton3,988	York 375	Batiscan1,100
Port Dalhousie1.152	Shedden 300	Trout Creek 400	Zurich 700	Beaconsfield 375
Port Dover1,138	Shelburne1,113	Tweed1,368	DRINGE FOWARD	Beauce Junction 300
Port Elgin1,235	Sherkston225	Uffington 250	IST.AND	Beauceville, W 500
Port Hope 5 002	Singhampton 200	Unionville 470	ZOPAT V	Beauharnois 2,015
Port Lambton 320	Smithfield 225	Uxbridge1,433	Abrams Village 350	Beaulac 431
Portland 350	Smiths Falls6,370	Vanessa 220	Alberton 700	Beaulieu 200
Port McNicoll 430	Smithville 650	Vankleek Hill1,577	Belfast 300	Beauport - 3.000
Port Perry1,148	Southampton 1 685	Verner 500	Breadalbane 200	Beaupre 500
Port Rowan 721	So. Gower 80	Vernon 225	Caledonia 200	Beaurivage 300
Portsmouth1.786	So. Indian 275	Verona 270	Cape Traverse 250	Becancour 311
Port Stanley 891	So. Mountain. 420	Victoria Harbor1,616	Cardigan 250	Bedlord1,432
Powassan 644	So. River 593	Victoria Mines 300	Carreton 200	Beebe Junction 200
Prescott2,801	Spanish Mills 200	Vienna 332	CHARLOTTE-	Belisles Mills 250
Pricaville 320	Spanish 200	Vineland 230	TOWN11,203	Belle Riviere 400
Prince Albert 250	Sparta 425	Vittoria 500	Coleman 300	Beloeil1,501
Princeton 450	Spencerville 500	Waldemar 175	Crapaud 400	Beranger 200
Quadville 250	Springbrook 225	Walkerton 2.601	Flat River 250	Bergerville 300
Queensville 210	Springfield 454	Walkerville3,302	Georgetown1,010	Bernier 628
Kammam Centre 200	- P			

OUEBEC Cont'd.	QUEBEC Cont'd.	QUEBEC Cont'd.	QUEBEC Cont'd.	QUEBEC Cont'd.
Bersimis 700	Clarenceville 450	Grande Baie1,300	Laprairie2,388	Montmorency
Berthier1,335	Coaticook 3,165	Grande Freniere 200	La Presentation 600	Montpellier 200
Berthi r (en bas) 500	Coleraine Station 350	Grandes Piles 500	Larochelle 391	Montreal470,480
Berthier Junction 225	Como 898	Grand Ligne 200	La Tuque 2 034	Montreal W 703
Bic	Contracour 624	Grand Metic 250	Laurentides 1.128	Mont Rolland 500
Bishops Crossing 600	Cookshire 996	Grand Pahos 600	Laurierville 399	Mont St. Hilaire 475
Black Lake. 2.645	Corner of the	Grand River 500	Lauzon3,978	Morin Heights 380
Blanche 200	Beach 300	Grand Saint	Laval 323	Moulin Charette 220
Boileau 500	Coteau du Lac 428	Esprit 200	Lavaltrie 500	Mount Carmel1,075
Bolduc 750	Coteau Landing 385	Grand Vallee 325	L'Avenir 750	Mount Johnson 450
Bolton Centre 200	Cote St Tue	Greenfield Park 200	La Visitation 230	Murray Ray 1 440
River 1 200	Cote St. Michel 500	Grenville 1.383	Leclercyille 530	Namur 300
Bord a Plouffe 200	Cote St. Vincent 150	Grondines1,100	Leeds Village 200	Napierville 691
Bordeaux 994	Courcelles 900	Hatley 498	Lennoxville1,211	Neuville 800
Boucherville1,097	Cowansville 881	Hebertville2,800	L'Epiphanie1,400	Newbois 200
Bouchette 350	Cross Point 700	Helena 200	Les Eboulements 2,000	New Carlisle
Bridgeville 200	Dalhousie Station 400	Henryville 1 000	Les Ecureuns 800	Newport 850
Brigham 300	Dalibaire 1.500	He bertville 655	Levis 7.452	New Richmond
Broadlands 200	Danville1,331	Howick 450	Liniere 600	Station 400
Brome 548	Daveluyville 294	Hube deau 350	L'Islet2,000	New Rockland 176
Bromptonville1,239	Deschaillons1,161	Hudson 650	Little Cascapedia 400	Nicolet2,593
Broughton Station 250	Deschange Mills 300	Hunterstown 600	Little Metis 500	No Clarendon 200
Brownshuigh 5250	Dewittville. 200	Huntingdon 1.265	Station 300	No. Ham. 400
Bryson 477	D'Israeli1,606	Huntingville 250	Little Pabos 400	No. Hatley 500
Buckingham3,854	Dixville 404	Huron 368	Little River E 200	No. Nation Mills 200
Buckland 500	Dorion 631	Iberville1,905	Little River W 250	No. Onslow1,200
Bury 600	Dorval1,005	Ile aux Noix 400	Longueuil3,972	No. Stanbridge 250
Cacouna 500	Douglastown1,100	Inverness 194	Lorette1,388	No. Stukely 400
Calumet 650	Drummondville 1.725	Isle aux Coudres 600	Lorraineville 300	Notre Dame de
Calumet Island 400	Dunham 296	Isle aux Grues 400	Lotbiniere 850	Graces W5,217
Campbells Bay 447	Dunkin 200	Isle Bizard 200	Louiseville1,675	Notre Dame de
Canrobert. 229	E. Angus1,400	Isle Dupas 375	Lourdes 300	Rimouski 400
Cap Chatte 930	E Clifton 250	Tobaville 200	Lower Ireland 200	Notre-Dame de
Cap des Rosier 500	E. Farnham 250	Ioliette 6.346	Magdalan Islands 3 700	Notre-Dame des
Cape Cove2,000	Eastman. 607	Jonquiere2,354	Magog3.978	Bois 500
Cape Despair 200	E. Templeton 500	Kamouraska 519	Maisonneuve18,684	Notre Dame de
Capelton600	Eaton 150	Kazubazua Sta 250	Malbaie1,449	Stanbridge 768
Caplin River 4/5	Echo Vale 200	Kelso 200	Manche d'Epec 200	Notre Dame du
Can Rouge 600	Emileville 200	Kildare 800	Mandville 400	Notes Dome du
Cap St. Ignace2,650	Escuminac 200	Kingsbury 263	Manseau 400	Lane 300
Cap St. Martin 250	Eustis 300	Kingsey Falls 300	Mansonville 420	Notre Dame du
Cap Sante 700	Fabre 200	Knowlton 865	Maple Grove 250	Portage 400
Capucins 350	Farnham3,560	La Baie1,500	Marbleton 681	Notre Dame du
Carillon 188	Fassett 800	La Dale Shawenegan 1,024	Maria Copes 600	November 200
Carleton1,500	Father Point 250	Lacadie 1.500	Maria E. 200	Novan 200
Cartierville 905	Ferme Neuve 280	Lac a la Tortue 350	Marieville1.587	O'Donnells Siding 900
Cascades Point 200	Fernetville 200	Lac au Saumon1,171	Martinville 404	Oka 584
Bert Dintition Section Secti	Fitch Bay 500	Lac aux Sables 400	Mascouche 650	Ormstown 782
Cazaville 250	Foster 2001	Lac Dellemarre 300	Mascouche Rapids, 200	Otter Lake 200
Cedars 500	Fox River1.000	Lachenaie. 650	Maskinonge 775	Papinaguvilla 1.015
Chambly Basin 900	Frampton 400	La Chevrotiere 250	Massawinni 200	Pagnette 350
Chambly Canton 857	Franklin Centre. 280	Lachine10,699	Masson1,034	Pare 200
Champlain1,400	Fraserville6,733	Lachute2,407	Massueville 776	Parisville 400
Charette 2201	Frest Village 225	Lachute Mills 850	Mastai 200	Paspebiac1,500
Charlemagne 776	Fulford 200	La Conception 200	Matane1,850	Pentacost River 320
Charlesbourg2,000	Gagne 250	Lake Alymer 200	Mawcook 350	Perkins 350
Chartierville 800	Garthby 300	Lake Etchemin 400	Melbourne 314	Petit Bois 300
Chateauguay 400	Gascon 500	Lakefield 200	Melocheville 250	Petite Mascouche 200
Basin 250	Gaspe Bay So 4001	Lake Megantic2,399	Milton E 200	Petite Matane 450
Chateau Richer1.350	Gentilly 430	Landreville	Mingan 250	Petit Metis 285
Chaudiere Station. 250	Georgeville. 250	Langevin 1000	Moisie 251	Pinnolis E 347
Chelsea. 200	Girard 250	L'Annonciation 622	Montcalm 500	Piedmont 200
Cheneville 505	Glen Murray 200	Lanoraie. 600	Montebello. 954	Pierreville. 1.363
Chesterville	Gould 200	L'Anse a Giles 300	Montfort 400	Peirreville Mills 250
Chicot 250	Gracefield 2001	L'Anse au Beaufils 200	Mont Toli 2 141	Pigeon Hill 260
Chicoutimi.	Granby. 4.750	La Patrie 700	Mont Laurier. 752	Pike River 220
Christieville 200	Grand	La Petite Riviere. 2001	Mont Louis 300	Plaisance 250
Chateauguay	Cascapedia 450	La Plaine 200	Montmagny2,617	Plesssisville 1.559

		- IND 10 WAS OF CA	NADA	99
QUEBEC Cont'd.	QUEBEC Cont'd.	QUEBEC Cont'd.	OUEBEC Cont'd	OUEBEC Cont'd.
Pointe a Calumet_ 250	St Andra Arralin 1 500	Can Adala 200	0. 25 1 11	Ch Cranica 200
Pointe au Pic 617	St. Andrews E 1,000	Ste. Agathe des	Ste. Marguerite.	St Guillaume 300
Pointe aux Trembles 1,167	St. Anne de Beaupre1,326	Monts2,020	Dorchester 300	St. Guillaume
Pointe Claire 703	St. Anselme2,000	Ste. Agnes de	Ste. Marguerite 350	d'Upton 905
Pointe du Lac 879	St Antoine do	Charlevoix 200	Ste. Marie2,000	St. Henri, Levis 700
Pointe Gatineau 1.751	Tilly 500	Ste Angele 400	Rlandford 450	St. Guillaume 300 St. Guillaume 905 St. Henri, Levis 700 St. Hermas 300 St. Hermenegide 200
Point Fortune 311	St. Antonin 400	Ste. Angele de	Ste. Marthe 350	St. Hilaire 650
Pont Briand 250	St. Apollinaire 600	Laval 900	Ste. Martine 400	St. Hippolyte de
Pont Chateau 425	St. Armand Station 350	Ste. Angele de	Ste. Melanie 300	Kilkenny 400
Pont Rouge 1 200	St Augustin	Sta Appe de	Montaelm de	St. Hugues 470
Pont Viau.	Portneuf 800	Beaupre 1.326	St Emile de	St. Hermenegilde 200 St. Hilaire 650 St. Hippolyte de Kilkenny 400 St. Hugues 470 St. Hyacinthe 9,797 St. Ignace de
Portage du Fort 365	St. Augustin 300	Ste. Anne de	Suffolk 300	Lovola 250
Port Daniel Centre_ 800	St. Barnabe, N2,100	Bellevue1,416	Ste. Monique,	St.Irenee 600
Portneyi Station 200	St. Barnabe Sud 980	Ste. Anne de la	Nicolet 600	St. Isidore 250
Powers Court 220	St. Bazile 1 500	Ste Anne de la	Ste Pernatua 350	St. Irenee 600 St. Isidore 250 St. Isidore, La Prairie 200 St. Jacques 1,500 St. Jacques le Mineur 200 St. Jacques le Mineur 300
Precieux Sang 525	St. Bazile de Grand 500	Pocatiere1,000	Ste. Perpetue.	St. Tacques. 1.500
QUEBEC78,067	St. Benjamin 300	Ste. Anne des	L' Islet1,175	St. Jacques le Mineur 200
Quyon.	St. Benoit.	Monts1,300	Ste. Philomene. 250	St. Janvier 300
Radner Forges 350	St. Benoit Larie 800	Plaines des	Ste. Philomene de	St. Jean5,903
Radstock 650	St. Blaise 400	Ste. Beatrix 350	St. Enhrem 509	de Rouville 500
Rapide de l'Origna 1 350	St. Bonaventure 900	Ste. Brigide d'Iber-	St. Epiphane1,200	St. Jean de Matha_1.000
Rawdon 600	St. Boniface de	ville 230	Ste. Rosalie 250	St. Jean d'Orleans 800
Restigouche 523	Shawinigan 500	Ste. Brigitte des	Ste. Rose, Laval1,480	St. Jean l'Evangel-
Richelieu 333	timi 373	Ste Catherine 300	Watford 350	St Tean Port Toli 1 000
Pointe au Pic 617 Pointe au Pic 617 Pointe Bleue 400 Pointe Claire 793 Pointe du Lac 875 Pointe Gatineau 1,751 Point Fortune 311 Pont Briand 250 Pont Chateau 452 Pont Viau 500 Port Rouge 1,200 Pont Viau 500 Port Daniel Centre 80 Port Daniel Centre 80 Portneuf Station 200 Portneuf Station 200 Powers Court 220 Powers Court 220 Precieux Sang 525 QUEBEC 78,067 Quyon 800 Racine 200 Radnor Forges 350 Radstock 650 Rapide de l'Orignal 350 Radstock 523 Richardville 303 Richmond 2,175 Rigaud 855 Rimouski 3,009 Ripon 1,000 River Beaudette 366	St. Bruno 725	Ste. Cecile de Lev-	Ste. Sabine de	St. Jerome. Chicoutimi 719
Rigaud 850	St. Calixte de	rard 500	Bellechasse 300	St. Jerome de
Rimouski	Kilkenny 300	Ste. Cecile de	Ste. Scholastique 757	Matane2,056
Ripon 1,000	St. Camille de 500	Masham 200	St Febrit 1 000	Montmorence 250
Riviere a Claude 250	Bellechasse. 200	Ste. Cecile de Whitton 250	Ste. Thecle1.000	St. Tohns6.500
Riviere a la Martre _ 200	St. Canute 250	Ste. Christine 200	Ste. Theodosie 200	St. Joseph, Beauce _1,440
Riviere a Pierre 850	St. Casimir2,000	Ste. Claire 800	Ste. Therese2,120	St. Joseph,
		Ste. Clothilde de	harnois	St. Jacques
Chiens 200	St. Cesaire	Chateauguay 250	St. Etienne des	St. Joseph de
Riviere Desert 500	St. Charles, St.	Ste. Croix1,000	Gres 300	Sorel 400
Riviere des Prairies 350	Hyacinthe 650	Ste. Dorothee 850	St. Eugene 250	St. Joseph du Lac. 250
Riviere du Loup6,774	Caplin 230	Ste. Edwidge 200	St. Eustache 996	St. Tude 600
Riviere Gentilly 250	St. Christine 600	St. Eleuthere 800	St. Evariste de	St. Justin 350
Riviere St. Jean. 250	St. Chrysostome 600	St. Elie 300	Forsyth 200	St. Lambert3,344
Riviere Trois	St. Claude 220	Ste. Elizabeth,	St. Evariste Station 300	St. Laurent
Pistoles 500	St Come 500	Ste. Emilie de	St Fabien1,000	d'Orleans 300
Robertsonville 603	St. Constant 500	l'Energie 500	St. Faustin 300	St. Lazare 350
Roberval1,/3/	St. Cunegonde11,177	Ste. Eulalie 250	St. Felicien. 700	St. Lazare de
Rochon.	St. Cuthbert Sta 275	Ste Felicite 2.000	Kingsey 500	St. Leon 380
Rock Forest 200	St. Cyrille 711	Ste. Flavie1,000	St. Felix de	St. Leonard d'As-
Rock Island 861	St. Cyrille de	Ste. Flavie Station _ 800	Valois1,200	ton1,050
Rougement Station 300	Wendover 711	Ste. Flore	St. Ferdinand1,000	St. Liboire 550
Roxton Pond	Wendover 711 St. Damase. St. Hyacinthe 1,075 St. Damase. 800	Ste Genevieve de	St. Fortunat.	St. Louis de
Ruisseau le Blanc 525	1St. Damase 800	Batiscan 350	St. Flavien 300 St. Fortunat 230 St. Foy 250	Bonsecours 230
Sabrevois 200	'IST Damase des	Ste. Gertrude 300	St. Francois de	St. Louis de Gon- zague 700
Sacre-Cœur de Jesus 996	Aulnais1,000	Ste. Helene, Bagot _ 250	Sales Sta 500	St. Louis de Ha Ha 450
Sacre-Cœur de Marie 300	St. Damien de Brandon 300	Ste. Helene de Chester 200	St. Francois d'Orleans 300	St. Luc. 250
St. Adelphe de	St. Damien. de	Ste. Henedine 300	St. Francois du	St. Luc 250 St. Ludger 400 St. Malachie 600
Marie 300 St. Adelphe de Champlain 800 St. Adrien 200 St. Agapit, 1,000 St. Ajme 800	Buckland 350	Ste. Julie 250 Ste. Julienne 300	Lac	St. Malachie 600 St. Malo 500
St. Adrien 200	St. David d'Yamaska 800	Ste. Julienne 350 Ste. Julie Station 350	St. Francois Xavier	St. Marc 400
St Agapit,, 800	St Denis St.		de Brompton 200 St. Frederic 375 St. Gabriel de	St. Marc des Carriers 800
St Alban 1.200	Hyacinthe 733	Newton 500	St. Gabriel de Brandon1,602 St. Gedeon 1,000	St. Marcel, L'Islet 300
St. Alexandre,	St. Didace 600	St. Eleuthere1,200	Brandon1,002	St. Marcel de
St. Agapit,	St. Dominique de	St. Eleuthere 1,200 St. Elie 1,300 St. Eloi 1,300 St. Luce 700 Ste. Luce Station 500 Ste. Luce de	St. George Beauce, 1,410	St. Martin 450
St. Alexandre1,760	St Dominique Sta 200	Ste. Luce 700	St. George de	St. Mathias 300
St. Alexis de Montcalm1,000	Jobs Donat	Ste. Luce Station 500	Windsor 350	St. Mathieu 350
St. Alexis des	St. Donat de	Ste. Lucie de Doncaster1,350	St. Germain de	St. Maurice 400 St. Michel 800
Monts1,150	Montcalm 325	St Elzear 300	St. Germain de	St. Michel, Napier-
Montcalm	Pabos 600	Ste. Lucie de Doncaster. 1,350 St. Elzear 300 St. Elzear de Laval 200 Ste. Madeleine. 1.050	Kamouraska 700	ville 300
Granby 500	Ste. Agathe de	Laval 200	St. Gervais 300 St. Giles 300	St. Michel de Rougemont 400
Granby	Lotbiniere 375	Ste. Madeleine1.050	or. Gues 2001	Technication and account

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QUEBEC Cont'd.	OUEBEC Cont'd.	QUEBEC Cont'd.	SASK. Cont'd.	SASK. Cont'd.
	St Simon do	VaudreuilStation 300 Vercheres 725 Verdun 11,629 Victoriaville 3,028 Village des Aulnais 500 Village Jicheliau 300	Delmas 68	Maryfield 209
0-1-4- 000	St. Simon de Yamaska 500	Vercheres 725	Disley 99	Maymont 121
St. Michel de	St. Sixte 250	Verdun 11 629	Drinkwater 203	Maymont. 121 Melfort. 599 Melville 1,816
Wentworth 375	St. Stanislas de	Victoriaville 3 028	Dubuc 161	Melville1.816
St. Modiste 250	Champlain 600	Village des Aulnais 500	Duck Lake 379	Midale 156 Milestone 436
St. Moise 500	St. Stanislas de	Village Richelieu 300 Ville Marie 850	Dundurn 239	Milestone 436
		Ville Marie. 850	Earl Grey 154	Milestone 436 Montmartre. 201 Moosejaw. Est. 30,000 Moosejaw. 1,143 Morse 290 Mortlach 219 Neudorf 326 Nokomis 374 No. Battleford. Est. 5,500 No. Portal 176 Ogema 171 Outlook 685
St. Narcisse 600 St. Nazaire, Bagot 400	St. Sulpice 300	Ville St. Pierre 800	Elbow 221	Moosejaw Est. 30,000
St. Narcisse 000 St. Nazaire, Bagot 400 St. Nazaire, Dor 500 St. Nicholas 400 St. Norbert 275	St. Sylvestre3.000	Vincennes 500	Elfros 103	Moosomin1,143
St. Nicholas 400	St. Telesphore 250	Wakefield 350	Elstow 114	Morse 290
St. Norbert 275	St. Theodore	Wakefield 350 Warden 250	Esterhazy. 258	Mortlach 219
			Estevan1,981	Neudorf 326
Berthier 375	St. Theodore de	Waterloo 1,886 Waterville 1,054 Ways Mills 250 Weedom 850 Weedon Centre 836	Expanse 250	Nokomis 374
St. Octave1,300	Chertsey1,425	Waterville1.054	Evebrow 182	No. Battleford. Est. 5,500
St. Odilon 300	St. Theophile 250	Ways Mills 250	Fairlight 96	No. Portal 176
St. Omer. 500	St. Thomas de	Weedom 850	Fillmore 187	Ogema 171
St. Onesime 250	Joliette 250	Weedon Centre 836	Fleming 270	Outlook 685 Oxbow 630 Paynton 121 Pense 236
St. Ours 622	St. Thuribe 300	Weedon Centre	Foam Lake 185	Oxbow 630
St. Pacome1,500	St. Timothee 450	W. Broughton 500	Forget 267	Paynton 121
St. Pamphile1,800	St. Tite1,438	W. Shefford 363	Fort Ou'Appelle 285	Pense 236
St. Paschal1,500	St. Tite des Caps 400	Wickham West 500		
St. Paul de	St. Ubalde 400	Windsor Mills2,233	Francis 263	Plenty 128
Chester 650	Joe. Or Daile du	MACDUTTT	Frobisher 120	Preeceville 235
St. Paul de la	Chateauguay 300	Wolfstown 250	Gainsboro. 247	Prince Albert Est. 11,000
Chester. 650 St. Paul de la Croix. 250 St. Paul	St. Valentin 300	Wotton 600	Glenavon 130	Qu'Appelle 851
	St. Valere de	Yamachiche 905	Glen Ewen 168	Plenty
d'Industrie 300	Bulstrode 250	Vamaska 695	Goodeve 71	Radisson 305
St. Pauldu Buton _ 300	St. Valerien	Yamaska East 750	Govan 390	Radville 233
St. Paulin 800	St. Valier 400		Grayson 124 Grenfell 709	Raymore 126
St. Paul l'Hermite 400	St. Victor de Tring _ 900	SASKATCHEWAN '	Grenfell 709	Redvers 200
St. Pauls Bay1,857	St. Valerien 400 St. Valier 400 St. Victor de Tring 900 St. Vincent de Paul 1,492 St. Wenceslas 400		Griffin 109	Quill Lake 103 Radisson 305 Radville 233 Raymore 126 Redvers 200 REGINA Est 40,000 Rocapyille 266
St. Philemon 400	St. Wenceslas 400	Abernethy 273	Guernsey 175	Rocanville 266
St. Philippe	St. Zacharie 300	Abernethy 273	Gull Lake 606	Roche Percee 162
d'Argenteuil 375	St. Zephirin 500	Adanac 73	Hague 300	Rosetown 317
St. Philippe de	Sandy Bay 500	Alameda 282	Halbrite 239	Rosthern1,172
Laprairie 500	Sandy Beach Centre 500	Allan	Hanley 381	Rouleau 679
St. Philomene de	Saraguayville 275	Alsask	Harris 106	Saltcoats 432
Fortierville1,000	Sault au Recollet 300	Antler 138	Hawarden 126	SaskatoonEst. 28,000
St. Pie. 708	Sawyerville 432	Arcola 794	Herbert 559	Scott 420
St. Pie de Guire 200	Scotstown 933	Asquith 199	Heward 132	Sedley 221
St. Pierre aux Liens 2,201	Scott Junction 800	Assimiboia 1130	Howell 112	Semans 194
St. Pierre Daptiste 300	Seal Cove 100	Avonlea 190	Hudson Bay Junction 215	Sheho 107
Doggueta 600	Senneville 410	Balcarres 348	Humboldt 859	Shell Brook 198
C4 Diame	Seven Islands out	Balgonie 308	Indian Head1,285	Rocanville
Montmagner 300	Shawonogen Folls 4 265	Battleford1,333	Ituna 95	Southey 157
St Placide 579	Shaweille 745	Delle Flaine 82	Jasmin 130	Stockholm 100
St Polycarne 46	Sherbrooke 16 405	Dengougn	Kamsack 4/3	Stoughton 311
St Polycarpe Ict 200	Sherrington 450	Digger 215	Keeler 74	Strassburg 811
St Prosper 600	Shigawake	Diggal 515	Kelliner ZZU	Sutherland 421
St Process de	Sillery Cove 300	Birch Wille 145	Kenaston 185	Swift Current Est. 5,000
Dorohostar 250	Sorel 8 420	Dich milis	Kennedy 104	Tantallon 115
St Deudentienne 510	So Durham 400	Blaine Lake 120	Kindersley 456	Theodore 193
St Paphael Fact 000	So Ham 500	Rorden 06	Vinisting 450	Tisdale
St Raymond 165	So Stukely 360	Bradwell Station 118	Vinling 227	Togo 111
St Remi 1 02	Stanbridge E 600	Bredenhury 165	Kipling 237	Tompkins 90
St. Remi d'Amberst 1 000	Shigawake	Briercrest 165	Kisbey 269 Kronau 102	Ineodore
St Remide	Standon 600	Broderick 130	Lampman 96	Trues
Tingwick 250	Standon 600 Stanfold 900	Broadview 702	Laird 195	Uniter 184
St. Robert 350	Stanstead 837	Brock 117	Landia 407	37
St. Roch 900	n Stoke Centre 300	Brownlee 171	Lang 301	Vangualu
	C+C-1J 201	D 1	Langenburg 220	Vanda 269
St. Roch l'Achigan 90	Sutton 986	Bulvea 117	Langham 389	Wodens
St. Romain. 250	Sweetsburg 305	Cabri 350	Lanigan 392	Waldron
St. Romuald1,80	Tadousac 611	Canora 435	Lashburn 232	Wanella 195
St. Rosaire 25	Terrebonne1,990	Carievale 188	Lashburn 232 Lemberg 303	Vanguard 300 Viceroy 325 Vonda 268 Wadena 255 Waldron 114 Wapella 485 Warman 140
St. Samuel de Gay-	Thetford Mines7,26	Carlyle 358		Watman
hurst 30	Three Rivers 13,691	Carnduff 469	Leslie 126	Wateon
Saints Anges 32	Thurso 60!	Caron 222	Lipton 273	Watrous
St. Sauveur des	Tingwick 350	Churchbridge 90	Lloydminster. 441	Wawota
Montagnes 20	Tremblay1,000	Coblenz 93	Lockwood 101	Weyhurn 2 210
Montagnes 30	Trenholm 250	Colgate 95	Lorehurn 135	Whitewood
St. Sebastien de	Trois Pistoles3,000	Colonsay		Wilcox 260
Beauce 60	Trois Saumons 400	Craik 435	Luseland 104	Wilkie
St. Sebastien 30	Trout River 300	Craven 77	McTaggart 134	Windthorst
St. Severe 25	Upton740	Creelman 100	Macklin 322	Wolseley
St. Severin de	Valcourt 850	Cupar 223	Macoun 208	Wynyard
Beaurivage 50	Valleyfield9,449	Dana 78	Maidstone 97	Vellow Grass
St. Simeon 51	Sutton 98t	Davidson 389	Mark 104	Wilkie 253 Windthorst 208 Wolseley 961 Wynyard 513 Yellow Grass 459 Yorkton 2,309 Zealandia 264
St. Simon 40	vi vaudreuil 444	Delisle 234	Maple Creek 936	Zealandia
			,	404

CITIES AND TOWNS OF THE UNITED STATES

of five thousand or more inhabitants

LATEST CENSUS

Capitals of States are indicated by asterisk*

Population figures in heavy face type are official estimates of Bureau of Census of July 1st, 1914.

† Official State Census figures for 1915.

Population of Township.

Aberdeen, S. Dakt	_ 11.846
Aberdeen, S. Dakt- Aberdeen, Wash	10 220
	- 10,220
Aberdeen, Wash Abilene, Tex Abington, Mass.†*	11,846 18,220 12,806 5,646
Abington, Mass.	5 646
A de Old Mada.	3,070
Ada, Ukia	5,000
Adams Mass till	13 218
A Zalino Menon I	- 10,410
Adrian, Mich	_ 10,234
Akren Ohie	_ 80,291
TANDUI ORIGINAL	- 00,201
Alameda, Cal.	25.330
Albany Ca	8 100
Zilberty, Chicococco	0,190
Albany, N. Y. T.	107,979
Albert I ee Minn	6 102
Winett Tes' Williams	. 0,194
Albia, lowat	5.138
Albian Mich	E 921
WIDIOIT, THICK	- 2,000
Albion, N. V. t	5.988
Albuquerque, N. M.	13,057
Annuquerque, N. M.	
Alexandria, Ind.	5.096
Alamandaia Ta	19 500
AICXABGULE, La.	10,004
Alexandria, Va	15,670
Albambus Cal	E 021
Alhambra, Cal	. 5,041
Allentown, Pa	. 60.297
	5,096 13,582 15,670 5,021 60,297
Alliance, Ohio	17,718 13,089 22,092
Alpena, Mich.	13 020
All THE CHIEF COLORS	00,000
Alton, Ill	. 22,092
Altoona, Pa	RR 552
	. 00,000
Amarillo, Tex	. 13,585
Ambridge, Pa	5 205
Ambridge, Pa	. 0,200
Americus, Ga	8.0 63
Amachury Maca th	9 5/2
Willespury Mrass. 1-	. 0,773
Amherst, Mass.	5.558
Amsterdam, N. Y. †.	34 210
Amsterdam Iv. T. 1.	· 04,017
Anaconda, Mont	_ 10,424
Anderson Ind	28 482
Auderson, Ind.	- 40,400
Anderson, S. C.,	_ 11.424
Andrew March	
Andover, Mass	7,978
Annapolis, Md*	7,978 8,643
Annapolis, Md*	7,978 8,643
Ann Arbor, Mich	7,978 8,643 14,948
Ann Arbor, Mich	7,978 8,643 14,948
Annapolis, Md* Ann Arbor, Mich Anniston, Ala	7,978 8,643 14,948 13,686
Anniston, Ala Ansonia, Conn	7,978 8,643 14,948 13,686 16,204
Ann Arbor, Mich Anniston, Ala Ansonia, Conn	7,978 8,643 14,948 13,686 16,204
Ann Arbor, Mich Anniston, Ala Ansonia, Conn	7,978 8,643 14,948 13,686 16,204 7,196
Ann Arbor, Mich Anniston, Ala Ansonia, Conn Antige, Wis Appleton, Wis	7,978 8,643 14,948 13,686 16,204 7,196 17,492
Ann Arbor, Mich Anniston, Ala Ansonia, Conn Antige, Wis Appleton, Wis	7,978 8,643 14,948 13,686 16.204 7,196 17,492
Ann Arbor, Mich Anniston, Ala Ansonia, Conn Antige, Wis Appleton, Wis Archbald, Pa	7,978 8,643 14,948 13,686 16,204 7,196 17,492
Ann Arbor, Mich Anniston, Ala Ansonia, Conn Antige, Wis Appleton, Wis	7,978 8,643 14,948 13,686 16,204 7,196 17,492 7,194 9,868
Ann Arbor, Mich	7,978 8,643 14,948 13,686 16,204 7,196 17,492 7,194 9,868 13,693
Ann Arbor, Mich Anniston, Ala Ansonia, Conn Antige, Wis Appleton, Wis Archbald, Pa	7,978 8,643 14,948 13,686 16,204 7,196 17,492 7,194 9,868 13,693
Ann Arbor, Mich. Anniston, Ala Ansonia, Conn. Antige, Wis Appleton, Wis Arcabald, Pa. Ardmore, Okla Argenta, Ark Arkansas City, Kant	7,978 8,643 14,948 13,686 16,204 7,196 17,492 7,194 9,868 13,693 7,775
Ann Arbor, Mich. Anniston, Ala Ansonia, Conn. Antige, Wis Appleton, Wis Arcabald, Pa. Ardmore, Okla Argenta, Ark Arkansas City, Kant	7,978 8,643 14,948 13,686 16,204 7,196 17,492 7,194 9,868 13,693 7,775
Ann Arbor, Mich. Anniston, Ala. Ansonia, Conn. Antige, Wis. Appleton, Wis. Archald, Pa. Ardmore, Okla. Argenta, Ark. Arkanasa City, Kaa. Arlington, Mass.	7,978 8,643 14,948 13,686 7,196 17,492 7,194 9,868 13,693 7,775
Ann Arbor, Mich. Anniston, Ala Ansonia, Conn. Antige, Wis Appleton, Wis Arcabald, Pa. Ardmore, Okla Argenta, Ark Arkansas City, Kant	7,194 9,868 13,693 7,775 14,889
Ann Arbor, Mich. Anniston, Ala. Ansonia, Conn. Antige, Wis. Appleton, Wis. Archald, Pa. Ardmore, Okla. Argenta, Ark. Arkanasa City, Kaa. Arlington, Mass.	7,194 9,868 13,693 7,775 14,889
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.† Arlington, Mass.† Arlington, N. J. Asbury Park, N. J.	7,194 7,194 9,868 13,693 7,775 14,889 6,000 10,910
Ann Arbor, Mich. Anniston, Ala. Ansonia, Conn. Antige, Wis. Appleton, Wis. Archald, Pa. Ardmore, Okla. Argenta, Ark. Arkanasa City, Kaa. Arlington, Mass.	7,194 9,868 13,693 7,775 14,889
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.† Arlington, Mass.† Arlington, N. J. Asbury Park, N. J.	7,194 7,194 9,868 13,693 7,775 14,889 6,000 10,910
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.† Arlington, Mass.† Arlington, N. J. Asbury Park, N. J.	7,194 7,194 9,868 13,693 7,775 14,889 6,000 10,910
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.† Arlington, Mass.† Arlington, N. J. Asbury Park, N. J.	7,194 7,194 9,868 13,693 7,775 14,889 6,000 10,910
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.† Arlington, Mass.† Arlington, N. J. Asbury Park, N. J.	7,194 7,194 9,868 13,693 7,775 14,889 6,000 10,910
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.† Arlington, Mass.† Arlington, N. J. Asbury Park, N. J.	7,194 7,194 9,868 13,693 7,775 14,889 6,000 10,910
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.† Arlington, Mass.† Arlington, N. J. Asbury Park, N. J.	7,194 7,194 9,868 13,693 7,775 14,889 6,000 10,910
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.† Arlington, Mass.† Arlington, N. J. Asbury Park, N. J.	7,194 7,194 9,868 13,693 7,775 14,889 6,000 10,910
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.† Arlington, Mass.† Arlington, N. J. Asbury Park, N. J.	17,492 7,194 9,868 13,693 7,775 14,889 6,000 10,910 20,157 9,492 6,795 5,020 6,855 11,594
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.† Arlington, Mass.† Arlington, N. J. Asbury Park, N. J.	17,492 7,194 9,868 13,693 7,775 14,889 6,000 10,910 20,157 9,492 6,795 5,020 6,855 11,594 5,601
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.† Arlington, Mass.† Arlington, N. J. Asbury Park, N. J.	17,492 7,194 9,868 13,693 7,775 14,889 6,000 10,910 20,157 9,492 6,795 5,020 6,855 11,594
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.† Arlington, Mass.† Arlington, N. J. Asbury Park, N. J.	7,492 7,194 9,868 13,693 7,775 14,889 6,000 10,910 20,157 9,492 6,795 5,020 6,855 11,594 5,601 20,478
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.† Arlington, Mass.† Arlington, N. J. Asbury Park, N. J.	17,492 7,194 9,868 13,693 7,775 14,889 6,000 10,910 20,157 9,492 6,795 5,020 6,855 11,594 5,601
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.† Arlington, Mass.† Arlington, N. J. Asbury Park, N. J.	7,492 7,194 9,868 13,693 7,775 14,889 6,000 10,910 20,157 9,492 6,795 5,020 6,855 11,594 5,601 20,478
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.† Arlington, Mass.† Arlington, N. J. Asbury Park, N. J.	7,492 7,194 9,868 13,693 7,775 14,889 6,000 10,910 20,157 9,492 6,795 5,020 6,855 11,594 5,601 20,478
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.† Arlington, Mass.† Arlington, N. J. Asbury Park, N. J.	7,492 7,194 9,868 13,693 7,775 14,889 6,000 10,910 20,157 9,492 6,795 5,020 6,855 11,594 5,601 20,478
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.† Arlington, Mass.† Arlington, N. J. Asbury Park, N. J.	7,492 7,194 9,868 13,693 7,775 14,889 6,000 10,910 20,157 9,492 6,795 5,020 6,855 11,594 5,601 20,478
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.† Arlington, Mass.† Arlington, N. J. Asbury Park, N. J.	7,492 7,194 9,868 13,693 7,775 14,889 6,000 10,910 20,157 9,492 6,795 5,020 6,855 11,594 5,601 20,478
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.† Arlington, Mass.† Arlington, N. J. Asbury Park, N. J.	7,492 7,194 9,868 13,693 7,775 14,889 6,000 10,910 20,157 9,492 6,795 5,020 6,855 11,594 5,601 20,478
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.† Arlington, Mass.† Arlington, N. J. Asbury Park, N. J.	7,492 7,194 9,868 13,693 7,775 14,889 6,000 10,910 20,157 9,492 6,795 5,020 6,855 11,594 5,601 20,478
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.† Arlington, Mass.† Arlington, N. J. Asbury Park, N. J.	7,492 7,194 9,868 13,693 7,775 14,889 6,000 10,910 20,157 9,492 6,795 5,020 6,855 11,594 5,601 20,478
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.† Arlington, Mass.† Arlington, N. J. Asbury Park, N. J.	7,492 7,194 9,868 13,693 7,775 14,889 6,000 10,910 20,157 9,492 6,795 5,020 6,855 11,594 5,601 20,478
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.† Arlington, Mass.† Arlington, N. J. Asbury Park, N. J.	7,492 7,194 9,868 13,693 7,775 14,889 6,000 10,910 20,157 9,492 6,795 5,020 6,855 11,594 5,601 20,478
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.† Arlington, Mass.† Arlington, N. J. Asbury Park, N. J.	7,492 7,194 9,868 13,693 7,775 14,889 6,000 10,910 20,157 9,492 6,795 5,020 6,855 11,594 5,601 20,478
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.† Arlington, Mass.† Arlington, N. J. Asbury Park, N. J.	7,492 7,194 9,868 13,693 7,775 14,889 6,000 10,910 20,157 9,492 6,795 5,020 6,855 11,594 5,601 20,478
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.† Arlington, Mass.† Arlington, N. J. Asbury Park, N. J.	7,492 7,194 9,868 13,693 7,775 14,889 6,000 10,910 20,157 9,492 6,795 5,020 6,855 11,594 5,601 20,478
Ann Arbor, Mich. Anniston, Ala. Ansonia, Conn. Antige, Wis. Arpheton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arkansas City, Kan. Arlington, Mass. Arlington, Mass. Arlington, N. J. Asheville, N. C. Ashland, Ky. Ashland, Ohie. Ashland, Ohie. Ashland, Wis. Ashland, Wis. Ashland, Wis. Ashland, Wis. Ashland, Ohie. Ashland, Companya Companya Ashland, Ohie. Ashland, Ohie. Ashland, Ga. Ashland, Ga. Athens, Ohie. Atlantic City, N. J.	7,194 9,868 13,693 7,775 14,889 6,000 10,910 20,157 9,492 6,795 5,020 6,855 111,594 5,601 20,479 10,115 15,163 18,900 5,463 9,783 175,262 18,480 15,963 32,468
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.† Arlington, Mass.† Arlington, N. J. Asbury Park, N. J.	7,194 9,868 13,693 7,775 14,889 6,000 10,910 20,157 9,492 6,795 5,020 6,855 111,594 5,601 20,479 10,115 15,163 18,900 5,463 9,783 175,262 18,480 15,963 32,468
Ann Arbor, Mich. Anniston, Ala. Ansonia, Conn. Antige, Wis. Arpheton, Wis. Archabald, Pa. Ardmore, Okla. Argenta, Ark. Arkansas City, Kan. Arlington, Mass. Arlington, Mass. Arlington, N. J. Asheville, N. C. Ashland, Ky. Ashland, Ohie. Ashland, Ohie. Ashland, Wis. Ashland, Wis. Ashland, Wis. Ashland, Wis. Ashland, Ohie. Ashland, Companya Companya Ashland, Ohie. Ashland, Ohie. Ashland, Ga. Ashland, Ga. Athens, Ohie. Atlantic City, N. J.	7,194 9,868 13,693 7,775 14,889 6,000 10,910 20,157 9,492 6,795 5,020 6,855 111,594 5,601 20,479 10,115 15,163 18,900 5,463 9,783 175,262 18,480 15,963 32,468
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archbeld, Pa. Archbeld, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.; Arlington, Mass.; Arlington, N. J. Ashard, R. Ashland, Chie. Ashland, Ohie. Athon, Ohie. Athon, Ohie. Athon, Ohie. Atlantic City, N. J.; Adlantic City, M. J.; Adlantic City, M	7,194 9,868 13,693 7,775 14,889 6,000 10,910 20,157 9,492 6,795 5,020 6,855 111,594 5,601 20,479 10,115 15,163 18,900 5,463 9,783 175,262 18,480 15,963 32,468
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archbeld, Pa. Archbeld, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.; Arlington, Mass.; Arlington, N. J. Ashard, R. Ashland, Chie. Ashland, Ohie. Athon, Ohie. Athon, Ohie. Athon, Ohie. Atlantic City, N. J.; Adlantic City, M. J.; Adlantic City, M	7,194 9,868 13,693 7,775 14,889 6,000 10,910 20,157 9,492 6,795 5,020 6,855 111,594 5,601 20,479 10,115 15,163 18,900 5,463 9,783 175,262 18,480 15,963 32,468
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archbeld, Pa. Archbeld, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.; Arlington, Mass.; Arlington, N. J. Ashard, R. Ashland, Chie. Ashland, Ohie. Athon, Ohie. Athon, Ohie. Athon, Ohie. Atlantic City, N. J.; Adlantic City, M. J.; Adlantic City, M	7,194 9,868 13,693 7,775 14,889 6,000 10,910 20,157 9,492 6,795 5,020 6,855 111,594 5,601 20,479 10,115 15,163 18,900 5,463 9,783 175,262 18,480 15,963 32,468
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archbeld, Pa. Archbeld, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.; Arlington, Mass.; Arlington, N. J. Ashard, R. Ashland, Chie. Ashland, Ohie. Athon, Ohie. Athon, Ohie. Athon, Ohie. Atlantic City, N. J.; Adlantic City, M. J.; Adlantic City, M	7,194 9,868 13,693 7,775 14,889 6,000 10,910 20,157 9,492 6,795 5,020 6,855 111,594 5,601 20,479 10,115 15,163 18,900 5,463 9,783 175,262 18,480 15,963 32,468
Ann Arbor, Mich. Anniston, Ala. Ansonie, Conn. Antige, Wis. Appleton, Wis. Archbald, Pa. Ardmore, Okla. Argenta, Ark. Arlington, Mass.; Arlington, Mass.; Arlington, N. J. Ashard, R. Ashand, L. Ashand, L. Ashand, Vis. Ashland, Ohie. Ashland, Wis. Ashland, Ohie. Athon, Mass.; Atlantic City, N. J.; Angusta, Ga. Augusta, Ga.	7,492 7,194 9,868 13,693 7,775 14,889 6,000 10,910 20,157 9,492 6,795 5,020 6,855 11,594 5,601 20,478

Tuto Octions	mg ur ca	101	_
Baker City Or	·e	6 74	2
Bakersfield, Ca	il	15,53	8
Baltimore, Md	57	79,59	0
Bangor, Pa		5.36	9
Baraboo, Wis		6,32	Ā
Barre. Vt	10	2,09	2
Bartlesville, Ol	da	6,18	1
Batavia, N. Y.	† 1	3,27	8
Bath, N. Y.		5,44	9
Baton Rouge, I	La.* 1	6,44	2
Battle Creek, L Bay City, Mich	1 4	7.04	7
Bayonne, N. J.	t 6	4,46	1
Beatrice, Neb.		9,10	7 7
Beaumont, Tex	2	5,43	3
Beaverdam, Wi	is 1	6,75	8
Beacon, N. Y.	1	0.82	5
Bedford, Ind.	••••••	9,82	3
Bellefontaine,	Ohio	8.91	5
Belleville, Ill.	2	1,13	9
Bellevue, Kv.	71	1,990 6.683	3
Bellevue, Ohio.		5,209	Ó
Bellevue, Ky Bellevue, Ohio. Bellevue, Pa Bellingham, Wa Belmont, Mass	ach 2	6,323 9 937	3
Bellingham, Wass Belmont, Mass Beloit Wis	3.	3,081	
Beloit, Wis Belvidere, Ill	1	7,122	2
Bemidji, Minn.		5,099	,
Bemidji, Minn. Bennington, Vt	Minh 1	8,980)
Benton Harbor, Berkeley, Cal	Mich. 1	0,301 2,150)
Berkley, Va		5,700)
Bernin, N. H		5.357	,
Berwyn, Ill		,841	
Bessemer, Ala Bethlehem, Pa	1	3,300 3,721	
Bethlehem, Pa Beverly, Mass. Biddeford, Me	22	,959	
Biddeford, Me Billings, Mont	13	.4/5 3.020	
Biloxi, Miss		, 147	
Bingkamton, N.	. Y.7. 53	,668	
Bisbee, Ariz	9	.019	
Bismarck, N. Da	ak.*T. C	,344	
lakely, Pa.t	5	,345	
Bloomfield, N. J	1 17	,306	
Bleemington, I	d9	,850	
Bloomsburg, Pa	7	413	
Bluefield, W. Va Blue Island, Ill Boise, Idaho*	8	,864	
Boise, Idaho*	26	,637	
Soone, lowa. 7	745	.439	
Soulder, Colo	10	,983	
Soundbrook, N.	. J.T 5 Kv 9	,152 ,597	
lowling Green,	Ohio. 5	,222	
oyne City, Miclozeman, Mont. raddock, Pa	N 5	,218	
raddock, Pa	20	,933	
radford, Pa	14	,544	

Brainard Miss	
	0.051
Braintree Mage +	0,301
Brainerd, Minn Braintree, Mass.† Brattleboro, Vt Brazil, Ind Brewer, Me	y,340
Drattleboro, Vt	6,517
Brazu, Ind	. 10,001
Brewer, Me	5,667
Bridgeport, Conn	115,289
Bridgeton N. J	. 13,611
Bridgewater, Mass.	9,381
Bristol, Conn	. 15.145
Bristol, Pa	10,172
Bristol, R. I. †#	10.302
Bristol, R. I. 7 Bristol, Tenn Bristol, Va	7 149
Bristol, Va	6 242
	£2 200
Brockton, Mass.†	, 02,200
Brookfield, Mo	5,749
Brookhaven, Miss	5,293
Brookline, Mass!	. 33,490
Brownsville, Tex	. 12,310
Brownwood, Tex	6,967
Brunswick, Ga	. 10,649
Brunswick, Me	5.341
Bucyrus, Ohio	8 122
Buffalo, N. Y.†	A61 887
	24 261
Durlington, Iowa.j	0.044
Durlington, N. J. 1	9,044
Burlington, N. J. † Burlington, Vt Burlington, Vt	21,247
Butter, Pa	25,543
	41,781
Cadillac, Mich Cairo, Ill	9,387
Cairo, Ill	15,392
Calais, Me	6.116
Calumet, Mich	30,000
Cambridge, Md	6.407
Cambridge, Mass.†.	108 887
Cambridge, Mass. 1.	12 8/10
Cambridge, Ohio	12,090
Camden, N. J. T.	102,215
Cambridge, Ohio Camden, N. J.† Canal Dover, Ohio	6,621
Canandaigua, N. Y.T.	6,621 7,501
Canandaigua, N. Y.T.	6,621 7,501 5,162
Canandaigua, N. Y.7. Canon City, Colo	6,621 7,501 5,162 12,438
Canandaigua, N. Y.7. Canon City, Colo	6,621 7,501 5,162 12,438 5,623
Canandaigua, N. Y.Ţ. Canon City, Colo Canton, Ill Canton, Mass.† [©]	6,621 7,501 5,162 12,438 5,623 57,426
Canandaigua, N. Y.T. Canon City, Colo Canton, Ill Canton, Mass.† Canton, Ohio Cane Girardeau, Mo.	6,621 7,501 5,162 12,438 5,623 57,426 10,033
Canandaigua, N. Y.T. Canon City, Colo Canton, Ill Canton, Mass.† Canton, Ohio Cane Girardeau, Mo.	102,215 6,621 7,501 5,162 12,438 5,623 57,426 10,033
Canandaigua, N. Y.T. Canon City, Colo Canton, Ill Canton, Mass.† Canton, Ohio Cane Girardeau, Mo.	102,215 6,621 7,501 5,162 12,438 5,623 57,426 10,033 5,411 18,532
Canandaigua, N. Y., Canon City, Colo	5,411 18,532
Canandaigua, N. Y.T. Canon City, Colo Canton, Ill Canton, Mass.†* Canton, Ohio Cape Girardeau, Mo. Carbondale, Ill Carbondale, Pa Carlisle, Pa	102,215 6,621 7,501 5,162 12,438 5,623 57,426 10,033 5,411 18,532 10,589
Canandaigua, N. Y., Canon City, Colo	5,411 18,532
Canandaigua, N. Y.T. Canon City, Colo Canton, Ill. Canton, Mass. † Cape Girardeau, Mo. Carbondale, Ill. Carbondale, Pa. Carlisle, Pa. Carneie, Pa. Carrick, Pa.	5,411 18,532
Canandaigua, N. Y.T. Canon City, Colo. Canton, Ill. Canton, Mass.† Canton, Ohio. Cape Girardeau, Mo. Carpondale, Ill. Carbondale, Pa. Carlisle, Pa. Carriege, Pa. Carriege, Pa. Carriege, Pa. Carriege, Pa. Carriege, Pa. Carriege, Pa.	5,411 18,532
Canandaigua, N. Y.T. Canon City, Colo. Canton, Ill Canton, Mass.† Canton, Ohio. Cape Girardeau, Mo. Carbondale, Ill. Carbondale, Pa. Carlisle, Pa. Carnegie, Pa. Carrick, Pa. Carson City, Nev.*	5,411 18,532
Canandaigua, N. Y.T. Canon City, Colo. Canton, Ill Canton, Mass.† Canton, Ohio. Cape Girardeau, Mo. Carbondale, Ill. Carbondale, Pa. Carlisle, Pa. Carnegie, Pa. Carrick, Pa. Carson City, Nev.*	5,411 18,532
Canandaigua, N. Y.T. Canon City, Colo. Canton, Ill Canton, Mass.† Canton, Ohio. Cape Girardeau, Mo. Carbondale, Ill. Carbondale, Pa. Carlisle, Pa. Carnegie, Pa. Carrick, Pa. Carson City, Nev.*	5,411 18,532
Canandaigua, N. Y.T. Canon City, Colo. Canton, Ill Canton, Mass.† Canton, Ohio. Cape Girardeau, Mo. Carbondale, Ill. Carbondale, Pa. Carlisle, Pa. Carnegie, Pa. Carrick, Pa. Carson City, Nev.*	5,411 18,532
Canandaigua, N. Y.T. Canon City, Colo. Canton, Ill. Canton, Mass.† Canton, Ohio. Cape Girardeau, Mo. Carpondale, Ill. Carbondale, Pa. Carlisle, Pa. Carrieg, Pa. Carrieg, Pa. Carrieg, Pa. Carrieg, Pa. Carson City, Nev. Catskill, N. Y.† Cedar Falls, Iowa,† Cedar Falls, Iowa,† Cedar Falls, Iowa,†	5,411 18,532
Canandaigua, N. Y.T. Canon City, Colo. Canton, Ill. Canton, Mass.† Canton, Ohio. Cape Girardeau, Mo. Carpondale, Ill. Carbondale, Pa. Carlisle, Pa. Carriege, Pa. Carriege, Pa. Carriege, Pa. Carriege, Pa. Carriege, Pa. Carriege, Pa.	5,411 18,532
Canandaigua, N. Y.T. Canon City, Colo. Canton, Ill. Canton, Mass.† Canton, Ohio. Cape Girardeau, Mo. Carpondale, Ill. Carbondale, Pa. Carlisle, Pa. Carrieg, Pa. Carrieg, Pa. Carrieg, Pa. Carrieg, Pa. Carson City, Nev. Catskill, N. Y.† Cedar Falls, Iowa,† Cedar Falls, Iowa,† Cedar Falls, Iowa,†	5,411 18,532
Canandaigua, N. Y.T. Canon City, Colo. Canton, Ill. Canton, Mass.† Canton, Ohio Cape Girardeau, Mo. Carbondale, Ill. Carbondale, Pa. Carlisle, Pa. Carlisle, Pa. Carnegie, Pa. Carregie, Pa. Carson City, Nev. Carthage, Mo. Catasauqua, Pa. Catasauqua, Pa. Catasar Ralls, Iowa.† Cedar Falls, Iowa.† Central Falls, Iowa.† Central Falls, R. I.† Central Falls, R. I.†	5,411 18,532
Canandaigua, N. Y.T. Canon City, Colo. Canton, Ill Canton, Mass.† Canton, Ohio Cape Girardeau, Mo. Carbondale, Ill. Carbondale, Pa. Carliele, Pa. Carrick, Pa. Carrick, Pa. Cartage, Mo. Catson City, Nev.* Cartage, Mo. Catsar Quantage, Mo. Catsar Quantage, Mo. Catsar Quantage, Mo. Catsar Ralls, Jowa, † Cedar Falls, Jowa, † Cedar Rapids, Iowa, † Cedar Rapids, Iowa, † Cedar Rapids, Iowa, † Centerville, Iowa, † Centerville, Iowa, † Centerville, Iowa, †	5,411 18,532
Canandaigua, N. Y.T. Canon City, Colo. Canton, Ill. Canton, Mass.† Canton, Ohio. Cape Girardeu, Mo. Carbondale, Ill. Carbondale, Pa. Carlisle, Pa. Carrick, Pa. Carrick, Pa. Carrick, Pa. Carson City, Nev.* Carson City, Nev.* Catsasuqua, Pa. Catsasuqua, Pa	5,411 18,532
Canandaigua, N. Y.T. Canon City, Colo. Canton, Ill. Canton, Mass.† Canton, Ohio. Cape Girardeau, Mo. Cape Girardeau, Mo. Carbondale, Pa. Carlisle, Pa. Carrisle, Pa. Carrisle, Pa. Carrisle, Pa. Carrisle, Pa. Carson City, Nev.* Carthage, Mo. Catasauqua, Pa. Catakill, N. Y.† Cedar Falls, Iowa,† Cedar Falls, Iowa,† Central Falls, R. I.† Central Falls, R. I.† Centralia, Ill. Entralia, Ill. Entralia, Wash Lambershurg, Pa.	5,411 18,532
Canandaigua, N. Y.T. Canon City, Colo. Canton, Ill. Canton, Mass.† Canton, Ohio. Cape Girardeu, Mo. Carbondale, Ill. Carbondale, Pa. Carlisle, Pa. Carrick, Pa. Carrick, Pa. Carrick, Pa. Carson City, Nev.* Carson City, Nev.* Catsasuqua, Pa. Catsasuqua, Pa	5,411 18,532
Canandaigua, N. Y.T. Canon City, Colo. Canton, Ill. Canton, Mass.† Canton, Ohio. Cape Girardeau, Mo. Cape Girardeau, Mo. Carbondale, Pa. Carlisle, Pa. Carlisle, Pa. Carnegie, Pa. Carnegie, Pa. Carson City, Nev. Carthage, Mo. Catasauqua, Pa. Catasauqua, P	5,411 18,532
Canandaigua, N. Y.T. Canon City, Colo. Canton, Ill. Canton, Mass.† Canton, Ohio. Cape Girardeau, Mo. Cape Girardeau, Mo. Carbondale, Pa. Carlisle, Pa. Carlisle, Pa. Carnegie, Pa. Carnegie, Pa. Carson City, Nev. Carthage, Mo. Catasauqua, Pa. Catasauqua, P	5,411 18,532
Canandaigua, N. Y.T. Canon City, Colo. Canton, Ill. Canton, Mass.† Canton, Ohio. Cape Girardeau, Mo. Carbondale, Ill. Carbondale, Pa. Carlisle, Pa. Carrick, Pa. Carrick, Pa. Carson City, Nev. Carthage, Mo. Carbandale, Pa. Catasauqua, Pa.	5,411 18,532
Canandaigua, N. Y.T. Canon City, Colo. Canton, Ill. Canton, Mass.† Canton, Ohio. Cape Girardeau, Mo. Cape Girardeau, Mo. Carbondale, Pa. Carlisle, Pa. Carlisle, Pa. Carnegie, Pa. Carnegie, Pa. Carson City, Nev. Carthage, Mo. Catasauqua, Pa. Catasauqua, P	5,411 18,532
Canandaigua, N. Y.T. Canon City, Colo. Canton, Ill. Canton, Mass.† Canton, Ohio. Cape Girardeau, Mo. Carbondale, Ill. Carbondale, Pa. Carlisle, Pa. Carrick, Pa. Carrick, Pa. Carson City, Nev. Carthage, Mo. Carbandale, Pa. Catasauqua, Pa.	5,411 18,532
Canandaigua, N. Y.T. Canon City, Colo. Canton, Ill. Canton, Mass.† Canton, Ohio. Cape Girardeau, Mo. Carbondale, Ill. Carbondale, Pa. Carlisle, Pa. Carrick, Pa. Carrick, Pa. Carson City, Nev. Carthage, Mo. Carbandale, Pa. Catasauqua, Pa.	5,411 18,532
Canandaigua, N. Y.T. Canon City, Colo. Canton, Ill. Canton, Mass.† Canton, Ohio. Cape Girardeau, Mo. Carbondale, Ill. Carbondale, Pa. Carlisle, Pa. Carrick, Pa. Carrick, Pa. Carson City, Nev. Carthage, Mo. Carbandale, Pa. Catasauqua, Pa.	5,411 18,532
Canandaigua, N. Y.T. Canon City, Colo. Canton, Ill. Canton, Mass.† Canton, Ohio. Cape Girardeau, Mo. Carbondale, Ill. Carbondale, Pa. Carlisle, Pa. Carrick, Pa. Carrick, Pa. Carson City, Nev. Carthage, Mo. Carbandale, Pa. Catasauqua, Pa.	5,411 18,532
Canandaigua, N. Y.T. Canon City, Colo. Canton, Ill. Canton, Mass.† Canton, Ohio. Cape Girardeau, Mo. Carbondale, Ill. Carbondale, Pa. Carlisle, Pa. Carrick, Pa. Carrick, Pa. Carrick, Pa. Carson City, Nev. Carbage, Mo. Catasauqua, Pa. Catasull, N. Y.† Cadar Falls, Iowa.† Central Falls, R. I.† Centralia, Ill. Centralia, Ill. Cantalia, Wash Chambersburg, Pa. Champaign, Ill. Chamuer, Kan.† Charleroi, Pa. Charler	5,411 18,532
Canandaigua, N. Y. Canon City, Colo. Canton, Ill. Canton, Mass.† Canton, Ohio Cape Girardeau, Mo. Cape Girardeau, Mo. Carbondale, Pa. Carlisle, Pa. Carriegie, Pa. Carriegie, Pa. Carriegie, Pa. Carriegie, Pa. Carson City, Nev. Carthage, Mo. Catasaugua, Pa. Catakill, N. Y.† Cedar Falls, Towa.† Cedar Falls, Towa.† Central Falls, Towa.† Central Falls, R. I.† Centralia, Wash Lambersburg, Pa. Lampaign, Ill. Charleto, Pa. Lambers City, Iowa.† Lantes City, Iowa.† Larleston, Ill. Larleston, S. C. Larleston, W. Va.* Charlotte, N. C. Larleston, W. Va.* Charlotte, N. C. Larleston, W. Va.* Charlotte, N. C. Larleston, W. Va.*	5,411 18,532
Canandaigua, N. Y.T. Canon City, Colo. Canton, Ill. Canton, Mass.† Canton, Ohio. Cape Girardeau, Mo. Carbondale, Ill. Carbondale, Pa. Carlisle, Pa. Carrick, Pa. Carrick, Pa. Carrick, Pa. Carson City, Nev. Carbage, Mo. Catasauqua, Pa. Catasull, N. Y.† Cadar Falls, Iowa.† Central Falls, R. I.† Centralia, Ill. Centralia, Ill. Cantalia, Wash Chambersburg, Pa. Champaign, Ill. Chamuer, Kan.† Charleroi, Pa. Charler	5,411 18,532

Chelsea, Mass. †	3,426 0,474
Chester, Pa 4	0,474
Cheyenne, Wyo.*†	0 661
Chicago, Ill2,39	3,325
Chicago Heights, Ill 1	9,560
Chickasha, Okla1 Chicopee, Mass.†3	3,328 9,560 3,873 0,138 8,500 6,265 5,160
Chicopee, Mass.† 3	0,138
Chicopee Falls, Mass.	8,500
Chillicothe, Mo	6,265
Chillicothe, Ohio 1	5,160
Chippewa Falls, Wis.	9,233
Chisholm, Minn	7,684
	8,230
Uncinnati Obio All	2,175
Circleville, Ohio	0,744
Claremont, N. H.	6,800
Clarksburg, W. Va 1	1,394
Clarksville, Lenn.	8,548
Clearfield, Pa	0,851
Cleburne, Tex	1,587
Cleveland, Ohio63 Cleveland, Tenn Clifton, N. J.†	9,431
Cleveland, I enn	5,549
Cliffon, N. J. J.	3,100
Clifton Forge, Va.	5,743
Clinton, Ill.	5,165
Clinton, Ind	5,229
Clinton, Iowa-1	0,091
Classet Miss.	7,192
Cooldala Da	1,031
Coalgate, Okla	0,104
Coatesville, Pa	2 260
Coeur d'Alene, Idaho.	7 701
Coffeeville Kan † 15	228
Cohoes N V +	A33
Coldwater Mich	045
Collingswood, N. J.t. 6	600
Collinsville, Ill	478
Colorado Sprs., Colo. 31	717
	.371
Columbia, Pa 11	454
Columbia, S. C.* 33	506
Columbia, Tenn 5	7.54
Columbia, Me. 11 Columbia, Pa. 11 Columbia, Pern. 3 Columbia, Ga. 2 Columbus, Ga. 2 Columbus, Ind. 9 Columbus, Miss. 10 Columbus, Miss. 10 Columbus, Neb. 5 Col	805
Columbus, Ind.	.103
Columbus, Miss. 10	.053
Columbus, Neb 5	.014
Columbus, Ohio. * 204	.567
Concord, Mass.	.681
Concord, N. H.* 22	,291
Concord, N. C 8	.715
Concordia, Kan 5	,229
Conneaut, Onio 8	,824
Connellsville, Pa 14 Connersville, Ind 7	,613
Connersville, Ind 7	,738
Conshohocken, Pa 7	,480
Coraopolis, Pa 5 Cordele, Ga 5	,252
Cordele, Ga 5	,883
Corinth, Miss 5	020
Corning, N. Y. 7 13	,459
Cordus Christi, Lex V	,720
Corry, Pa	,991
Corsicana, Tex 9	,934
Cortland, N. Y.J 12	,367
Coshocton, Ohio 10	,936
Council Bluffs, Iowat 31	,354
Coventry, R. I.	069
Covington, Ky 55.	,898
Coventry, R. I.† 5 Covington, Ky 55 Cranston, R. I.† 26 Crawfordsville, Ind 10	,940
Crawfordsville, Ind 10	,608
Creston, Iowat 7,	572

Cripple Creek, Colo Crookston, Minn	6,206	
Crookston, Minn	7,559	
	6,206 7,559 5,099	
Cumberland, Md.	23,846 9,929 11,986 5,324 21,808 11,177 30,847 5,420 7,517 19,697 6,305 5,330 48,483 6,979 123,794	
Cumberland, Mass. † Dallas, Tex Dalton, Ga	9.929	
Dallas Ter 1	11,986	
Dalton Co	5 324	
Danton, Ga	21 000	
Danbury, Conn	21,000	
Danvers, Mass.	11,1//	
Danville, Ill	30,847	
Danville, Ky	5,420	
Danville, Pa	7,517	
Danville, Va	19,697	
Darby, Pa.	6.305	
Dartmouth Mass ta	5 3 3 0	
Darby, Pa Dartmouth, Mass.†**. Davenport, Iowa.† Dayton, Ky Dayton, Ohio Decatur, Ill.	18 183	
Davenport, Iowa. 1	6 070	
Dayton, Ky	122 704	
Dayton, Onio	23,794	
Decatur, Ill	123,794 37,525 11,043 7,327 9,036 9,560 5,038 14,409 145,523 9,441	
Dedham, Mass.	11,043	
Defiance, Ohio	7,327	
DeKalb, Ill.	9.036	
Delaware Ohio	9.560	
Delphos Ohio	5 038	
Denison Tor	14 400	
Denison, Tex	45 503	
Denver, Colo 2	40,023	
Derby, Conn	9,441	
Des Moines, lowa*7.1	05,652	
Detroit, Mich5	37.650	
Devils Lake, N. Dak. †	4,525	
Dayton, Ohio. Decatur, III. Deciham, Mass.†** Defiance, Ohio. DeKalb, III. Delaware, Ohio. Delphos, Ohio. Denison, Tex. Denver, Colo.** 2 Derby, Conn. Des Moines, Iowa*†.1 Detroit, Mich. Devil's Lake, N. Dak.† Dickson City, Pa. Dixon III. Donora, Pa. Dothan, Ala.	11,198	
Dixon Ill	7.216	
Donora Pa	8 174	
Dothan Ala	2016	
Douglas Aria	6,427	
Douglas, Alla	9,441 05,652 37,650 4,525 11,198 7,216 8,174 7,016 6,437 3,720 13,284	
Dover, Del.T	3,720	
Dover, N. H	13,264	
Dover, N. J. 7	8,971	
Dowagiac, Mich	5,088	
Dublin, Ga	5,795	
Dubois, Pa	13,284 8,971 5,088 5,795 14,007 41,795 89,331 17,870 19,757 18,576	
Dubuque, lowa, t	41.795	
Duluth, Minn	89.331	
Dunkirk, N. V.t.	17.870	
Dunmore Pa	19.757	
Duqueene Pa	18 578	
Duquein III	5 454	
Durant Okla	5 220	
Durker M. C.	20,000	
Durnam, N. C	22,003	
Duryea, Pa	7,487 25,781 11,914	
East Chicago, Ind	25,781	
East Cleveland, Ohio.	11,914 5,046 9,845	
East Conemaugh, Pa.	5,046	
Easthampton, Mass. 14	9,845	
East Hartford, Conn.	8,875 21,877 29,882	
East Liverpool, Ohio.	21.877	
Easton, Pa	29.882	
East Orange, N. I.t		
Fast Pittshurg Pa	5 615	
Fact Providence P I to	5,615 18,584 69,502 18,647	
East Tovidence, K.I.,	20,502	
East Saint Louis, III	09,002	
Eau Claire, Wis	18,047	
Edwardsville, Ill	5.014	
Edwardsville, Pa	3,014	
	9,787	
Elberton, Ga	9,787 6,483	
Elberton, Ga Elgin, Ill	9,787 6,483 27,435	
Elberton, Ga Elgin, Ill Elizabeth, N. I.†	9,787 6,483 27,485 32.036	
Elberton, Ga Elgin, Ill Elizabeth, N. J.† Elizabeth City, N. C	9,787 6,483 27,435 32,036 9,292	
Elberton, Ga Elgin, Ill	9,787 6,483 27,435 32,036 9,292 21,028	
Elberton, Ga. Elgin, Ill. Elizabeth, N. J.† Elizabeth City, N. C. Elkhart, Ind.	9,787 6,483 27,435 32,036 9,292 21,028	
Elberton, Ga	9,787 6,483 27,435 32,036 9,292 21,028 5,260	
Elberton, Ga. Elgin, Ill. Elizabeth, N. J.† Elizabeth City, N. C. Elkhart, Ind. Elkins, W. Va. Elmira, N. Y.†	9,787 6,483 27,435 32,036 9,292 21,028 5,260	
Elberton, Ga. Elgin, Ill. Elizabeth, N. J.†. Elizabeth City, N. C. Elkhart, Ind. Elkins, W. Va. Elmira, N. Y.†. El Paso, Tex.	9,787 6,483 27,435 32,036 9,292 21,028 5,260	
Donora, Pa. Dothan, Ala Dothan, Ala Douglas, Ariz. Dover, Del.* Dover, N. H. Dubilin, Ga. Dubois, Pa. Duduoin, Ill. Durham, N. C. Duryea, Pa. East Cleveland, Ohio. East Conemaugh, Pa. East Cleveland, Ohio. East Conemaugh, Pa. East Hartford, Conn. East Hartford, Conn. East Providence, R.I. East Pittsburg, Pa. East Providence, R.I. East Providence, R.I. East Providence, R.I. East Providence, R.I. East Edwardsville, Ill. Edwardsville, Pa. Elberton, Ga. Elgin, Ill. Elizabeth, N. J.† Elizabeth, N. J.† Elizabeth, N. J. Elizabeth, N. J. Elizabeth, N. J. Elizabeth, N. V. El Paso, Tex.	9,787 6,483 27,435 32,036 9,292 21,028 5,260	
Elberton, Ga Elgin, Ill Elizabeth, N. J.† Elixabeth City, N. C Elkhart, Ind Elkins, W. Va Elmira, N. Y.† El Paso, Tex El Reno, Okla El wood, Ind	9,787 6,483 27,435 32,036 9,292 21,028 5,260	
Elberton, Ga. Elgin, Ill. Elizabeth, N. J.† Elizabeth City, N. C. Elkhart, Ind. Elkins, W. Va. Elmira, N. Y.† El Paso, Tex. El Reno, Okla. Elwood, Ind. Elyria, Ohio.	9,787 6,483 27,435 32,036 9,292 21,028 5,260	
Elberton, Ga Elgin, Ill	9,787 6,483 27,435 32,036 9,292 21,028 5,260	
Elberton, Ga Elgin, Ill. Elizabeth, N. J.† Elizabeth City, N. C. Elkhart, Ind Elkins, W. Va Elmira, N. Y.† El Paso, Tex El Reno, Okla Elwood, Ind. Elyria, Ohio. Emporia, Kan.† Endicott, N. Y.†	9,787 6,483 27,435 32,036 9,292 21,028 5,260	
Elberton, Ga. Elgin, Ill. Elizabeth, N. J.† Elizabeth City, N. C. Elkhart, Ind. Elkins, W. Va Elmira, N. Y.† El Paso, Tex. El Reno, Okla Elwood, Ind. Elyria, Ohio. Emporia, Kan.† Endicott, N. Y.† Englewood, N. J. †	9,787 6,483 27,435 32,036 9,292 21,028 5,260 40,073 49,505 7,872 11,028 17,398 10,664 5,581	
Elberton, Ga Elgin, III. Elizabeth, N. J.† Elizabeth City, N. C. Elkhart, Ind. Elkins, W. Va Elmira, N. Y.† El Paso, Tex El Reno, Okla Elyvia, Ohio. Elyvia, Ohio. Emporia, Kan.† Endicott, N. Y.† Englewood, N. J.† Englewood, N. J.†	9,787 6,483 27,435 32,036 9,292 21,028 5,260 40,073 49,505 7,872 11,028 17,398 10,664 5,581 11,071 11,071	
Elberton, Ga. Elgin, Ill. Elizabeth, N. J.† Elizabeth City, N. C. Elkhart, Ind. Elkins, W. Va. Elmira, N. Y.† El Paso, Tex. El Reno, Okla. Elwood, Ind. Elyria, Ohio. Emporia, Kan.† Endicott, N. Y.† Englewood, N. J.† Englewood, N. J.† Englewood, N. J.† Englewood, N. Ennis, Tex.	9,787 6,483 27,435 32,036 9,292 21,028 5,260 40,073 49,505 7,872 11,028 17,398 10,664 5,581 11,071 11,071	
Elwood, Ind Elyria, Ohio Emporia, Kan.†	9,787 6,483 27,435 32,036 9,292 21,028 5,260 40,073 49,505 7,872 11,028 17,398 10,664 5,581	

	-	
Escanaba, Mich	34	747
	5	230
Fugere Ore	12	083
Eureka, Cal	13.	768
Evanston, Ill.	27.	724
Evansville, Ind	71.	284
Eveleth Minn	7,0	336
Everett, Mass.†	37,	718 048
Everett, Wash	32,	048
Fairbury, Neb	5,	294
Fairfield, Iowa†	6,	113
Fairhaven, Mass.	6.	$\frac{277}{200}$
Fairmont, W. Va	11,	934
Fall River, Mass. 7 I	24,	791
rargo, N. Dak.	20,	749
Faridauit, Milun	10	404 100
Ema, Pa. Eugene, Ore Eureka, Cal. Evanston, Ill. Evansville, Ind. Eveleth Minn Everett, Wass. Fairbury, Neb. Fairfield, Iowa† Fairhaven, Mass. Fall River, Mass. Falr Buyer, Mass. Fargo, N. Dak. Fargo, N. Dak. Fargo, N. Dak. Fargo, N. Osk. Fayetteville, N. C. Fayetteville, N. C. Fergus Falls, Minn Findlay, Onio. Fitchburg, Mass. Fitzgerald, Ga. Flat River, Mo.	7	045
Farmie Falle Minn	6	927 927
Findlay Ohio	14	858
Fitchburg, Mass. t.	39,	656
Fitzgerald, Ga	5.	795
Flat River, Mo	5.	112
Flint, Mich	49.	546
Florence, Ala	6,	689
Florence, S. C	7,	057
Fond du Lac, Wis	20,	367
Forest City, Pa	5,	749
Forest Park, Ill	6,	594
Fort Collins, Colo	10,	407
Fort Dodge, Iowa†	19,	372
Fort Lee, N. J.t	. 5,	288
Fort Madison, lowar.	, 9,	507
Fort Scott, Kan. t	11,4	122
Fort Smith, Ark	27,	135
Fort Wayne, Ind	62,	3ZZ 404
Fortagio Obia	10	202
Framingham Mass +	10,	38 <u>4</u> 360
Frankfort Ind	13,	200
Florence, Ala. Florence, S. C. Florence, S. C. Ford du Lac, Wis. Forest City, Pa. Forest Park, Ill. Fort Collins, Colo. Fort Loe, N. J. Fort Madison, Iowat Fort Scott, Kan.† Fort Smith, Ark. Fort Smith, Ark. Fort Wayne, Ind. Fort Worth, Tex. Fostoria, Ohio. Framingham, Mass.† Frankfort, Ind. Frankfort, Ind. Franklin, Mass.† Franklin, N. H. Franklin, Pa. Frederick, Md.	10	200
Franklin Mass to	6	140
Franklin N. H.	6	132
Franklin, Pa.	10.	B11
Frederick, Md	10.	366
Fredericksburg, Va	5.	874
Fredonia, N. Y. t	5.3	382
recallo, ra	6,	197
Freeport, Ill Freeport, N. Y.† Fremont, Neb.	19,	018
Freeport, N. Y.†	. 7,	463
Fremont, Neb	9,	345
Fremont, Ohio Fresno, Cal. Frostburg, Md	10,	578
Fresno, Cal	29,	908
rostburg, Md	6,	028
fulton, Mo	- 5 '	228
D. L. DY YE .		
Fulton, N. Y.†	11,	138
Fulton, N. Y.†Gadsden, Ala	11, 13,	138 326
Fulton, Mo	11, 13, 6,	138 326 183
Fulton, N. Y.†Gadsden, AlaGainesville, FlaGainesville, GaGainesville	11, 13, 6, 5,	138 3 26 183 925
Fulton, N. Y.†	11, 13, 6, 5,	138 3 26 183 92 5 62 4
Fulton, N. Y.† Gadsden, Ala. Gainesville, Fla. Gainesville, Ga. Gainesville, Tex. Galeshar, Kan.†	11, 13, 6, 5, 7,	138 3 26 183 925 624 926
Fulton, N. Y.† Gadsden, Ala Gainesville, Fla Gainesville, Ga Gainesville, Tex. Galena, Kan.† Galesburg, Ill. Galion, Obio	11, 13, 6, 5, 7, 23,	138 3 26 183 92 5 62 4 926 570
Fulton, N. Y.† Gadsden, Ala Gainesville, Fla. Gainesville, Ga. Gainesville, Tex Galena, Kan.† Galesburg, Ill. Galion, Ohio	11, 13, 6, 5, 7, 5, 23,	138 3 26 183 925 624 926 570 214
Fulton, N. Y. † Sadsden, Ala. Sainesville, Fla. Gainesville, Ga. Gainesville, Tex. Galena, Kan. † Galesburg, Ill. Salion, Ohio. Sallipolis, Ohio Salveston, Tex.	11, 13, 6, 5, 7, 23, 7, 40.	138 3 26 183 925 624 926 570 214 560
Gainesville, Ga. Gainesville, Tex. Galena, Kan.† Galesburg, Ill. Galion, Ohio Gallipolis, Ohio Galveston, Tex	11, 13, 6, 5, 7, 5, 23, 7, 5, 40,	138 326 183 925 624 926 570 214 560 289
Gainesville, Ga. Gainesville, Tex. Galena, Kan.† Galesburg, Ill. Galion, Ohio Gallipolis, Ohio Galveston, Tex	11, 13, 6, 5, 7, 5, 23, 7, 5, 40,	138 326 183 925 624 926 570 214 560 289 311
Gainesville, Ga. Gainesville, Tex. Galena, Kan.† Galesburg, Ill. Galion, Ohio Gallipolis, Ohio Galveston, Tex	11, 13, 6, 5, 7, 5, 23, 7, 5, 40, 5,	138 326 183 925 624 926 570 214 560 289 311 376
Gainesville, Ga. Gainesville, Tex. Galena, Kan.† Galesburg, Ill. Galion, Ohio Gallipolis, Ohio Galveston, Tex	11, 13, 6, 5, 7, 5, 40, 5, 16. 15,	138 326 183 925 624 926 570 9214 133 76 83 11 83 83 83 83 83 83 83 83 83 83 83 83 83
Gainesville, Ga. Gainesville, Tex. Galena, Kan.† Galesburg, Ill. Galion, Ohio Gallipolis, Ohio Galveston, Tex	11, 13, 6, 5, 7, 5, 23, 7, 5, 40, 5, 16, 15,	138 326 183 925 624 926 55 70 928 93 11 13 76 14 15 15 16 17 17 17 17 17 17 17 17 17 17 17 17 17
Jainesville, Tex. Jalena, Kan.,† Jaleshurg, Ill. Jalion, Ohio. Jallipolis, Ohio Jalveston, Tex. Jardiner, Me.	11, 13, 6, 5, 7, 5, 23, 7, 40, 5, 16, 15,4	138 326 183 183 925 624 926 926 921 145 155 160 175 175 175 175 175 175 175 175 175 175
Jainesville, Tex. Jalena, Kan.,† Jaleshurg, Ill. Jalion, Ohio. Jallipolis, Ohio Jalveston, Tex. Jardiner, Me.	11, 13, 6, 7, 5, 7, 5, 40, 5, 16, 15, 41, 5,	138 326 183 925 624 926 624 926 921 14 15 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18
Jainesville, Tex. Jalena, Kan.,† Jaleshurg, Ill. Jalion, Ohio. Jallipolis, Ohio Jalveston, Tex. Jardiner, Me.	11, 13, 6, 7, 5, 7, 5, 40, 5, 16, 15, 16, 5,	138 326 326 325 624 926 5570 2214 5560 289 3311 553 3759 2232 232 401
Jainesville, Tex. Jalena, Kan.,† Jaleshurg, Ill. Jalion, Ohio. Jallipolis, Ohio Jalveston, Tex. Jardiner, Me.	11, 13, 6, 5, 7, 5, 40, 5, 16, 15, 5, 16, 5,	138 326 183 925 624 926 926 926 927 14 15 15 16 18 18 18 18 18 18 18 18 18 18 18 18 18
Jainesville, Tex. Jalena, Kan.,† Jaleshurg, Ill. Jalion, Ohio. Jallipolis, Ohio Jalveston, Tex. Jardiner, Me.	11, 13, 6, 5, 7, 5, 40, 5, 16, 15, 23, 7, 5, 40, 5, 16, 5, 16, 5, 16,	138 326 183 925 624 926 926 926 921 137 155 145 155 145 155 160 160 160 160 160 160 160 160 160 160
Jainesville, Tex. Jalena, Kan.,† Jaleshurg, Ill. Jalion, Ohio. Jallipolis, Ohio Jalveston, Tex. Jardiner, Me.	11, 13, 6, 7, 5, 23, 7, 5, 16. 15, 16. 5, 16. 5, 7, 16. 7, 16. 7, 16. 7, 16. 7, 16. 7, 16. 7, 17. 18. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	138 326 183 326 525 570 2214 560 2289 311 553 375 530 2289 311 553 302 533 533 533 533 533 533 533 533 533 53
Jainesville, Tex. Jalena, Kan.,† Jaleshurg, Ill. Jalion, Ohio. Jallipolis, Ohio Jalveston, Tex. Jardiner, Me.	11, 13, 6, 7, 5, 7, 5, 40, 5, 16. 15, 16, 5, 7, 7, 7, 16. 7, 7, 16. 7, 16. 7, 16. 7, 16. 7, 16. 7, 17, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18	138 326 183 326 521 4926 624 9926 221 445 401 401 401 401 401 401 401 401 401 401
Jainesville, Tex. Jalena, Kan.,† Jaleshurg, Ill. Jalion, Ohio. Jallipolis, Ohio Jalveston, Tex. Jardiner, Me.	11, 13, 6, 5, 7, 5, 23, 7, 5, 16, 5, 16, 5, 16, 7, 6, 24, 10, 24	138 326 183 925 624 926 624 926 55 70 92 183 183 183 183 183 183 183 183 183 183
Gainesville, Ga. Gainesville, Tex. Galena, Kan.† Galesburg, Ill. Galion, Ohio Gallipolis, Ohio Galveston, Tex	11, 13, 6, 5, 7, 5, 23, 7, 5, 16, 5, 16, 5, 16, 7, 7, 7, 16, 24, 10, 21, 21, 21	138 326 183 925 624 926 624 926 55 70 92 145 155 165 175 175 175 175 175 175 175 175 175 17

Crofton Mons to	
Granon, Mass. 1	6,250
Grafton, W. Va	7,563
Gration, Wass. I	13,554
Grand Haven, Mich.	11 505
Grand Island, Neb	7 754
Grand Panide Mich 1	23 227
Grand Rapids, Micu.	6 521
Granite City Ill	13.647
Great Barrington, Mas	s† 6
***************************************	6,627
Great Falls, Mont	13,948
Greeley, Colo	10,376
Greenbay, Wis	28,026
Greenfield, Mass.	12,618
Greensboro, N. C	18,391
Greensburg, Ind	5,420
Great Falls, Mont Greeley, Colo Greenbay, Wis Greenfield, Mass.† Greenshoro, N. C Greensburg, Ind Greenshurg, Pa Greenville, Miss Greenville, Ohio	10 440
Greenville, Ohio	17 305
Greenville, Pa	5 000
Greenville, S. C	17,395
Greenville, Tex	9,696
Greenwood, Miss	5,836
Greenwood, S. C	6,614
Griffin, Ga	7,478
Gulfport, Miss	6,386
Guthrie, Okla	11,911
Greenville, Tex Greenwood, Miss. Greenwood, S. C. Griffin, Ga Gulfport, Miss. Guthrie, Okla Guttenberg, N. J. † Hackensack, N. J. †	6,322
Hackensack, N. J.T.	14,050
Hagerstown, Md	20 014
Hamilton, Unio	24 401
Hammonton N T †	5 806
Hampton Va	5 505
Hancock, Mich	11.031
Hannibal, Mo	20,710
Hanover, Pa	7,057
Harrisburg, Ill	5,309
Harrisburg, Pa.*	69,493
Harrison, N. J.†	14,520
Harrison, N. J.† Hartford, Conn.*1	14,520 1 07,038
Harrison, N. J.† Hartford, Conn.*1 Hartford City, Ind	14,520 107,038 6,187
Harrison, N. J.† Hartford, Conn.*1 Hartford City, Ind Hartings, Neb	14,520 107,038 6,187 7,227
Harrison, N. J.† Hartford, Conn.* Hartford City, Ind Harvey, Ill Hastings, Neb Hastings on Hudson	14,520 107,038 6,187 7,227 10,252
Hartison, N. J.† Hartford, Conn.*! Hartford City, Ind Harvey, Ill Hastings, Neb Hastings on Hudson, N. V.†	14,520 107,038 6,187 7,227 10,252
Guttenberg, N. J. †. Hackensack, N. J. †. Hagerstown, Md. Hamilton, Ohio. Hammond, Ind. Hammond, Ind. Hampton, Va. Hancock, Mich. Hannote, Mich. Hanover, Pa. Harrisburg, Pa.* Harrisburg, Pa.* Harrisburg, Pa.* Hartford, Conn.* Hartford City, Ind. Hartory, Ill. Hartford, Conn. †. Hartford, Conn. †. Hartford, Conn. †. Hartford, Chy, Ind. Hartey, Ill. Hartory, Ill. Ha	14,520 107,038 6,187 7,227 10,252 5,461 14,952
Hattieshurg, Miss	14,520 107,038 6,187 7,227 10,252 5,461 14,952 49,450
Hattieshurg, Miss	14,520 107,038 6,187 7,227 10,252 5,461 14,952 49,450 5,418
Hattiesburg, Miss Haverhill, Mass.† Haverstraw, N. Y.† Hazleton, Pa	14,520 107,038 6,187 7,227 10,252 5,461 14,952 49,450 5,418 27,511
Hattiesburg, Miss Haverhill, Mass.† Haverstraw, N. Y.† Hazleton, Pa	14,520 107,038 6,187 7,227 10,252 5,461 14,952 49,450 5,418 27,511 10,144
Hattiesburg, Miss Haverhill, Mass.† Haverstraw, N. Y.† Hazleton, Pa Helena, Ark Helena, Mont.*	14,520 107,038 6,187 7,227 10,252 5,461 14,952 49,450 5,418 27,511 10,144 13,258
Hattiesburg, Miss Haverhill, Mass.†. Haverstraw, N. Y.†. Hazleton, Pa. Helena, Ark. Helena, Mont.*	14,520 107,038 6,187 7,227 10,252 5,461 14,952 49,450 5,418 27,511 10,144 13,258 6,073
Hattiesburg, Miss Haverhill, Mass.†. Haverstraw, N. Y.†. Hazleton, Pa. Helena, Ark. Helena, Mont.*	14,520 107,038 6,187 7,227 10,252 5,461 14,952 49,450 5,418 27,511 10,144 13,258 6,073 11,953
Hattiesburg, Miss Haverhill, Mass.†. Haverstraw, N. Y.†. Hazleton, Pa. Helena, Ark. Helena, Mont.*	14,520 107,038 6,187 7,227 10,252 5,461 14,952 49,450 5,418 27,511 10,144 13,258 6,073 11,953 9,580
Hattiesburg, Miss Haverhill, Mass.†. Haverstraw, N. Y.†. Hazleton, Pa. Helena, Ark. Helena, Mont.*	14,520 107,038 6,187 7,227 10,252 5,461 14,952 49,450 5,418 27,511 10,144 13,258 6,073 11,953 9,580 6,861 42,211
Hattiesburg, Miss Haverhill, Mass.†. Haverstraw, N. Y.†. Hazleton, Pa. Helena, Ark. Helena, Mont.*	14,520 107,038 6,187 7,227 10,252 5,461 14,952 49,450 5,418 27,511 10,144 13,258 6,073 11,953 9,580 6,861 12,211 11,810
Hattiesburg, Miss Haverhill, Mass.†. Haverstraw, N. Y.†. Hazleton, Pa. Helena, Ark. Helena, Mont.*	14,520 107,038 6,187 7,227 10,252 5,461 14,952 49,450 5,418 27,511 10,144 13,258 6,073 1,953 9,580 6,861 12,211 11,810 6,115
Hattiesburg, Miss Haverhill, Mass.†. Haverstraw, N. Y.†. Hazleton, Pa. Helena, Ark. Helena, Mont.*	14,520 107,038 6,187 7,227 10,252 5,461 14,952 49,450 5,418 27,511 10,144 13,258 6,073 11,953 9,580 6,861 12,211 11,810 6,115 5,001
Hattiesburg, Miss Haverhill, Mass.†. Haverstraw, N. Y.†. Hazleton, Pa. Helena, Ark. Helena, Mont.*	14,520 10,520 10,6187 7,227 10,252 5,461 14,952 49,450 5,418 27,511 10,144 13,258 6,073 11,953 9,580 6,115 5,001 5,264
Hattiesburg, Miss Haverhill, Mass.†. Haverstraw, N. Y.†. Hazleton, Pa. Helena, Ark. Helena, Mont.*	14,520 107,038 6,187 7,227 10,252 5,461 14,952 49,450 5,418 27,511 10,144 13,258 6,073 11,953 9,580 6,861 12,211 11,810 6,115 5,001 5,264 67,611
Hattiesburg, Miss Haverhill, Mass.†. Haverstraw, N. Y.†. Hazleton, Pa. Helena, Ark. Helena, Mont.*	14,520 107,038 6,187 7,227 10,252 5,461 14,952 49,450 5,418 27,511 10,144 13,258 6,073 11,953 9,580 6,861 12,211 11,810 6,115 5,001 5,264 6,7,611 11,639
Hattiesburg, Miss Haverhill, Mass.†. Haverstraw, N. Y.†. Hazleton, Pa. Helena, Ark. Helena, Mont.*	14,520 107,038 6,187 7,227 10,252 5,461 14,952 49,450 5,418 27,511 10,144 13,258 6,073 11,953 9,580 6,861 12,211 11,810 6,115 5,264 67,611 11,639 60,816
Hattiesburg, Miss Haverhill, Mass.†. Haverstraw, N. Y.†. Hazleton, Pa. Helena, Ark. Helena, Mont.*	14,520 107,038 6,187 7,227 10,252 49,450 5,461 14,952 27,511 10,144 13,258 6,073 11,953 9,580 6,861 12,211 11,810 6,115 5,061 6,611 11,639 60,816 60,816 621,258
Hattiesburg, Miss Haverhill, Mass.†. Haverstraw, N. Y.†. Hazleton, Pa. Helena, Ark. Helena, Mont.*	14,520 107,038 6,187 7,227 10,252 49,450 5,461 14,952 49,450 5,418 27,511 10,144 13,258 6,073 11,953 9,580 6,861 12,211 11,810 6,861 12,211 11,810 6,861 12,211 11,639 60,816 67,611 11,639 60,816 67,611
Hattiesburg, Miss Haverhill, Mass.†. Haverstraw, N. Y.†. Hazleton, Pa. Helena, Ark. Helena, Mont.*	14,520 107,038 107,038 107,032 10,252 10,252 14,952 49,450 5,418 27,511 10,144 13,258 6,073 11,953 9,580 6,861 11,810 67,611 11,810 67,611 11,810 67,611 11,810 67,611 11,810 67,611 11,810 67,611 11,810 67,611 11,810 67,611 11,810 67,611 11,810 67,611 11,810 67,611 11,830 67,611 11,830 67,611 11,830 67,611 11,830 67,611 11,830 67,611 11,830 67,611 11,830 67,611 11,830 67,611 11,830 67,611 11,830 67,611 11,830 67,611 11,830 67,611 11,830 67,611
Hattiesburg, Miss Haverhill, Mass.†. Haverstraw, N. Y.†. Hazleton, Pa. Helena, Ark. Helena, Mont.*	14,520 (07,038 (6,187 7,227 10,252 5,461 14,952 49,450 5,418 27,511 10,144 13,258 6,073 11,953 9,580 6,861 12,211 11,810 6,115 5,001 5,616 61,216 60,816 61,216 60,816 11,258 60,816 11,258 60,816 11,258 60,816 11,258 60,816 11,258 60,816 11,258 60,816 11,258 60,816 11,258 60,816 11,258 60,816 11,258 60,816 11,258 60,816 11,258 60,816 11,258 11,
Hattiesburg, Miss Haverhill, Mass.†. Haverstraw, N. Y.†. Hazleton, Pa. Helena, Ark. Helena, Mont.*	14,520 07,038 6,187 7,227 7,227 5,461 14,952 49,450 5,418 27,511 11,484 13,258 6,073 9,580 6,861 111,953 9,580 6,861 111,863 9,580 6,811 111,833 6,115 5,001 6,115 5,001 6,115 5,001 11,639 6,811 12,258 10,540 11,639 11,639 11,644 11,639 11,639 11,644 11,639 11,644 11,639 11,644 11,639 11,644 11,639 11,644 11,639 11,644 11,639 11,644 11,639 11,644 11,639 11,644 11,639 11,644 11,639 11,644 11,639 11,644 11,639 11,645
Hattiesburg, Miss Haverhill, Mass.†. Haverstraw, N. Y.†. Hazleton, Pa. Helena, Ark. Helena, Mont.*	14,520 16,187 7,227 10,252 5,461 14,952 5,418 27,571 10,144 13,258 9,580 6,861 11,953 9,580 6,861 12,211 18,101 6,115 5,001 10,288 11,953 10,288
Hattiesburg, Miss Haverhill, Mass.†. Haverstraw, N. Y.†. Hazleton, Pa. Helena, Ark. Helena, Mont.*	14,520 07,038 6,187 7,227 10,252 5,461 14,952 5,418 13,258 6,5418 11,953 11
Hattiesburg, Miss Haverhill, Mass.† Haverstraw, N. Y.† Hazleton, Pa Helena, Ark Helena, Mont.*	14,520 16,187 7,227 10,252 5,461 14,952 5,418 13,258 9,580 11,953 9,580 6,861 12,211 5,406 6,115 5,001 5,406 6,115 5,001 10,288 10,288 10,288 11,358 10,288 10,388 10
Hattiesburg, Miss Haverhill, Mass.†. Haverstraw, N. Y.†. Hazleton, Pa. Helena, Ark. Helena, Mont.*	14,520 16,187 17,227 10,252 5,461 14,952 5,418 12,751 10,144 13,258 11,810 9,580 6,861 12,211 11,810 6,861 12,211 11,810 6,861 12,211 11,810 12,211 11,810 12,211 11,810 12,211 11,810 12,211 11,810 12,211 11,810 12,211 11,810 12,211 11,810 12,211 11,810 12,211 11,810 12,211 13,288 14,352 16,334 5,406 10,288 10,288 10,288 10,288 10,288 10,288 10,288 10,288 10,288 10,288 10,38
Hattiesburg, Miss Haverhill, Mass.†. Haverstraw, N. Y.†. Hazleton, Pa. Helena, Ark. Helena, Mont.*	14,520 16,187 10,793 5,461 14,952 5,461 14,952 5,418 10,141 13,258 6,861 12,211 11,132 11,153 11
Hattiesburg, Miss Haverhill, Mass.†. Haverstraw, N. Y.†. Hazleton, Pa. Helena, Ark. Helena, Mont.*	14,520 16,187 7,227 10,252 5,461 14,952 5,418 13,258 9,580 11,953 9,580 6,861 11,810 6,115 5,001 5,418 11,810 6,115 5,001 10,288 11,810 10,288 11,810 10,288 11,810 10,288 11,810 10,288 11,810 10,288 11,810 10,288 11,810 10,288 11,810 10,288 11,810 10,288 11,810 10,288 11,810 10,288 11,810 10,288 11,810 10,288 11,810 10,288 1
Hattiesburg, Miss Haverhill, Mass.†. Haverstraw, N. Y.†. Hazleton, Pa. Helena, Ark. Helena, Mont.*	14,520 16,187 17,227 10,252 5,461 14,952 5,461 14,952 49,450 6,187 11,953 9,580 6,861 12,211 11,953 9,580 6,861 12,211 11,953 11,521 11,953 11,521 11,953 11,521 11,953 11,521 11,953 11,521 11,953 11,521 11,953 11,521 11,953 11,521 11,953 11,521 11,953 11,521 11,953 11,521 11,953 11,521 11,953 11,521 11,953 11,521 11,953 11,521 11,953 11,521 11,953 11,521 11,953 11,521 11,953 11,521 11,953 11,953 11,521 11,953 11,95
Hattiesburg, Miss Haverhill, Mass.†. Haverstraw, N. Y.†. Hazleton, Pa. Helena, Ark. Helena, Mont.*	14,520 16,187 10,753 5,461 14,952 5,461 14,952 5,418 27,511 11,525 6,861 12,211 11,544 6,115 5,001 5,001 6,115 5,001 6,115
Hattiesburg, Miss Haverhill, Mass.†. Haverstraw, N. Y.†. Hazleton, Pa. Helena, Ark. Helena, Mont.*	14,520 16,187 7,227 10,252 5,461 14,952 5,461 14,952 5,418 13,258 6,187 11,953 9,580 6,861 11,810 6,115 5,001 5,418 11,810 6,115 5,001 11,810 6,115 5,001 14,352 6,861 10,288 11,544 83,122 6,863 11,544 83,122 6,863 11,544 83,122 6,863 11,544 83,122 6,863 11,544 83,122 6,863 11,544 83,122 6,863 11,544 83,122 6,863 11,544 83,122 6,863 11,544 83,122 6,863 11,544 83,122 6,863 6,863 11,544 83,122 6,863 6,863 11,544 83,122 6,863 6,863 11,544 83,122 6,863 6,864

Huntington, Ind Huntington, W. Va Huntsville, Ala Huron, S. Dak.† Huron, Kan.† Hyde Park, Mass.† Ilion, N. Y.† Independence, Kan.†	
Huntington, Ind	40.470
	10,473
Huntington, W. Va	10,479 41,515
Hunteville Ala	7,611 6,012
TT C Dule 4	6.012
Huron, S. Dak. T	6,012 19,200 15,507 8,900 12,144
Hutchiuson, Kan. †	19,200
Hude Dark Mace to	15 507
riyde raik, Mass.	10,000
llion, N. Y.T	8,900
Independence, Kan.†. Independence, Mo	12,144
Independence, Mo	11 000
Independence, Mo	11,000
	5,749
Indianapolis Ind *	259.413
Taliana Donis, Ind.	6 200
Indiana, Pa. Indiana polis, Ind.* Indian Orchard, Mass Iola, Kan.† Ionia, Mich. Iowa City, Iowa† Iron Mountain, Mich. Iron Mountain, Mich. Ironton Ohio	0,200
Iola, Kan.†	. 7,866
Ionia Mich	5.030
TOHIA, WITCH.	12,033
Iowa City, Iowa	12,033
Ipswich, Mass. ta.	6.272
Iron Mountain Mich	0 218
Tron Monnight, Mich.	10,410
Ironton, Ohio	13,690 14,147
Tranwood Mich	14.147
Ironton, Ohio Ironwood, Mich	20 242
TLAMBROH' TA' T'	20,342
Ironton, Ohio. Ironwood, Mich. Irvington, N. J.† Ishpeming, Mich. Ithaca, N. Y.† Jackson, Mich. Jackson, Mish. Jackson, Ohio. Jackson, Tenn. Jackson, Tenn. Jacksonville, Fla. Jacksonville, Ill.	12,448
Ithaca N V t	16 750
Tenaca, M. I. J.	24 007
Jackson, Mich	34,097
Tackson, Miss.*	26,990
Tackson Ohio	E 469
Jackson, Onio	3,400
Tackson, Tenn	16,318
Tacksonville Fla	70.173
Jacksonville, Ill Jamestown, N. Y.†	15 401
Jacksonville, Ill	10,401
Tamestown, N. Y.f.	37.780
	E 500
Jamestown, N. Dak.	3,300
Janesville, Wis	14,195
Leannette Pa	9.020
	10 700
Jefferson City, Mo.*	12,700
Jeffersonville, Ind	10,412
Tercey City N It 2	70,903
Jersey City, M. J. J. J.	5 204
Jeffersonville, Ind	5,381
Johnson City, N.Y.t.	5.400
Johnson City, Tenn	10.143
Journson City, Tenn	
Johnson City, Tenn Johnstown, N. Y.† Johnstown, Pa	10,688 64.842
Johnstown, Pa	64.842
Talias TII	20 024
Johnstown, Pa Joliet, Ill. Jonesboro, Ark	30, 334
Jonesboro, Ark Joplin, Mo	7,123
Toplin Mo	32 848
John Mo.	5,000
Junction City, Kan. 7.	5.798
Jonesboro, Ark. Joplin, Mo. Junction City, Kan.† Juniata, Pa. Kalamazoo, Mich.	5,285
Kalamaraa Mich	45 942
ALGIGINAZOU, IVAICHESSE	70,072
Kalispell, Mont	
	3,537
Kane, Pa	6.626
Juniata, Pa	6,626
Kane, Pa. Kankakee, Ill	6,626 14,150
Kane, Pa Kankakee, Ill Kansas City, Kan.†	6,626 14,150 91,658
Kane, Pa. Kankakee, Ill. Kansas City, Kan.† Kansas City Mo.†.	6,626 14,150 91,658
Kane, Pa Kankakee, Ill. Kansas City, Kan.† Kansas City, Mo.†2	6,626 14,150 91,658 81,911
Kane, Pa Kankakee, Ill. Kansas City, Kan.† Kansas City, Mo.† Kearney, Neb	6,626 14,150 91,658 81,911 6,202
Kankakee, III	6,626 14,150 91,658 81,911 6,202 22,150
Kane, Pa Kankakee, Ill. Kansas City, Kan.† Kansas City, Mo.† Kearney, Neb Kearny, N. J.†	6,626 14,150 91,658 81,911 6,202 22,150
Kansas City, Kan.† Kansas City, Mo.† Karney, Neb Kearney, N. J.† Keene, N. H.	6,626 14,150 91,658 81,911 6,202 22,150 10,451
Kansas City, Kan.† Kansas City, Mo.† Kearney, Neb Kearny, N. J.† Kenee, N. H. Kenesha. Wis	
Kansas City, Kan.† Kansas City, Mo.† Kearney, Neb Kearny, N. J.† Kenee, N. H. Kenesha. Wis	6,626 14,150 91,658 81,911 6,202 22,150 10,451 26,062 7,185
Kansas City, Kan.† Kansas City, Mo.† Kearney, Neb Kearny, N. J.† Kenee, N. H. Kenesha. Wis	
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Kansas City, Kan.†. Kansas City, Mo.†2 Kearney, Neb. Kearney, Neb. Kearny, N. J.† Leene, N. H. Kenosha, Wis. Kenton, Ohio Keokuk, Iowa† Kewanee, Ill. Key West, Fla. Kingston, N. Y.† Kingston, N. C. Kirksville, Mo. Kinston, N. C. Kirksville, Pa. Knoxville, Pa. Knoxville, Pa. Knoxville, Pa. Knoxville, Tenn. Kokomo, Ind Lackawanna, N. Y.† Laconia, N. H. La Crosse, Wis. Lafayette, Ind. Lafayette, La. Lagrange, Ga.	
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Laramie, Wyo. 8,250 Laredo, Tex 15,461 Larksville, Pa 9,288 La Salle, Ill 12,000 Las Vegas, N. M. 3,179 Latrobe, Pa 10,549 Laurel, Miss 10,711 Laurium, Mich. 19,770 Lawrence, Kan.† 12,884 Lawrence, Kan.† 12,884 Lawrence, Mass.† 90,259 Lawton, Okla 7,783 Lead, S. Dak.† 8,128 Leadville, Colo 7,508 Leavenworth, Kan.† 22,090 Lebanon, Ind. 5,474 Lebanon, N. H 5,718 Lebanon, N. H 5,718 Lebanon, Ramper 1,7646 Lewiston, Idaho 6,043 Lewiston, Idaho 6,043 Lewiston, Idaho 6,043 Lewiston, Me. 27,305 Lewiston, Mass.† 7,646 Lewiston, Mass.† 9,746 Lexington, Mass.† 9,748 Lexington, Mass.† 9,748 Lexington, Moss.† 15,538 Lexington, Moss.† 15,531 Little Falls, Minn. 6,078 Little Falls, Minn. 6,078 Little Falls, Minn. 6,078 Little Falls, Minn. 5,359 Lock Haven, Pa. 7,772 Lockport, M. Y.† 18,693	Marion Marlbo Marqu Marsh
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Lawrence, Kan.† 12,884	Marys
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Lebanon, Pa 19,926	Maysvo Maysvo Meadv Mecha Medfo
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Lexington, Ky 38.819	Medin Melros
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Lincoln, Neb.* 45,843	Menon Menon Meride
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Little Rock, Ark 53.811	Miami
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Lockport, N. Y 18,693	Middle
1.001, 14. J. J	I TATIGOTE
Latrobe, Pa. 10,548 Laurel, Miss. 10,711 Laurium, Mich. 9,770 Lawrence, Kan.† 12,884 Lawrence, Mas.† 90,259 Lawton, Okla. 7,788 Lead, S. Dak.† 8,128 Lead, S. Dak.† 8,128 Leadville, Colo. 7,508 Leavenworth, Kan.† 22,090 Lebanon, Ind. 5,474 Lebanon, N. H. 5,718 Lebanon, Pa. 19,928 Lehighton, Pa. 5,316 Leominster, Mass.† 17,646 Lewiston, Idaho. 6,043 Lewiston, Me. 27,303 Lewistown, Pa. 9,744 Lexington, Ky. 38,819 Lexington, Ky. 38,818 Lexington, Mos. 1 5,538 Lexington, Mos. 1 5,538 Lexington, Mos. 1 5,538 Lexington, Mos. 1 5,538 Lexington, Mos. 1 11,552 Lincoln, Neb.* 45,643 Linton, Ind. 5,906 Little Falls, Minn. 6,078 Little Rock, Ark.* 53,811 Livingston, Mont. 5,359 Lock Haven, Pa. 7,772 Lockport, N. Y.† 18,693 Logan, Utah. 7,522 Logansport, Ind. 20,282	Middle
Logansport, Ind 20,202	Middle Middle
Long Branch N. I.† 14.565	
Longview, Tex 5.155	Millbu
Lorain, Ohio. 34,360	Millval Millvil Milton
Los Angeles Cal 438,914	Millvil
Louisville, Ky 235,114	Milton
Lowell, Mass. † 107,978	Milton,
Ludington, Mich 8,909	Milwan
Tugorno Do 5.406	Miners Minner
Luzerne, Fa	Minot,
Lynn, Mass. † 95.803	Mishav Missou Mitchel Moberl
Lyons, Iowa † 5,700	Missou
McAlester, Okla 16,716	Mitchel
McComb, Miss 6.237	Moberl
McKeesport, Pa 45,965	Mobile
McKees Rocks, Pa 18,308	Moline
Macomb, III 41 992	Monmo
Madison III 5 046	Monon
Madison Ind	Monroe Monroe Montae Montal
Madison, Wis.* 29,469	Monroe
Madisonville, Ohio 5.193	Montag
Mahanoy City, Pa 16.971	Montcl
Malden, Mass. † 48,907	Montgo
Malone, N. Y. 7.404	Montpe
Mamaroneck, N. Y. J. 7,290	Montpe Moreno Morgan Morgan
Manchester, Conn 14,555	Morean
Manchester Ve 12.200	Morrist
Manhattan Kan.t. 6.816	Morgan Morrist Mounds Mt. Car Mt. Cle Mt. Ples Mt. Ver
Manistee, Mich 12,381	Mt. Car
Manitowoc, Wis 13,583	Mt. Car
Mankato, Minn 10,385	Mt. Cle
Mansfield, Mass.	Mt. Plea
Manstield, Ohio 22,100	Mt. Ver
Marbienead, Mass. 7,000	Mt Ver
Marietta Ohio 12.923	Mt. Ver
Marinette, Wis-	Muncie
Marion, Ill 7,093	Munhal
Logan, Utah. 7,322 Logansport, Ind. 20,262 Longbeach, Cal. 24,437 Long Branch, N. J.† 14,565 Lorgivew, Tex. 5,155 Lorani, Ohio. 34,360 Los Angeles Cal. 438,914 Louisville, Ky. 235,114 Louisville, Ky. 235,114 Lowell, Mass.† 107,978 Ludington, Mich. 9,989 Ludlow, Mass.† 6,251 Luzerne, Pa. 5,426 Lynchburg, Va. 31,630 Lyons, Iowa † 5,700 McAlester, Okla. 16,718 McComb, Miss. 6,237 McKeesport, Pa. 45,965 McKees Rocks, Pa. 18,358 Macomb, Ill. 5,774 Macon, Ga. 41,992 Madison, Ild. 6,934 Madison, Wis.* 29,468 Madison, Wis.* 29,468 Madison, Wis.* 29,468 Madison, Wis.* 1,744 Macon, Ga. 41,992 Madison, Wis.* 1,744 Macon, Ga. 41,992 Madison, Wis.* 29,468 Madison, Wis.* 29,468 Madison, Wis.* 1,744 Madison, Wis.* 1,740 Manchester, Conn. 1,740 Manchester, N. Y.† 7,404 Mamaroneck, N. Y.† 7,404 Mamaroneck, N. Y.† 7,404 Mamaroneck, N. Y.† 7,404 Manhattan, Kan.† 8,907 Mansfield, Mass.† 8,772 Mansfield, Ohio. 12,331 Manitowoc, Wis. 13,553 Mankato, Minn. 10,965 Mansfield, Ohio. 12,100 Marblehead, Mass.† 7,700 Marietta, Ohio. 12,923 Mariintette, Wiss. 14,810 Marion, Ill. 7,093 Marion, Ill. 7,093	Muncie Munhal Murphy

POPULATION	OF	T
Marion, Ohio	90.0	20
Marion, Ohio Marlboro, Mass.t	15.2.	50
Marlboro, Mass.† Marquette, Mich Marshall, Tex	12,1	17
Marshalltown lowet	16.0	84 65
Marshfield, Wis	5,7	83
Marshalltown, Iowa†. Marshfield, Wis Martinsburg, W. Va Martins Ferry, Ohio	12,0	32 10
Marysville, Cal.	5,4	30
Mason City, Iowa† Massillon, Ohio	17,1	52
Matteawan, N. Y	6.7	27
Mattoon, Ill.	12,2	18
Maynard, Mass.	6.7	16 70
Maysville, Ky	6,1	41
Maywood, Ill	9,7	83 72
Meadville, Pa. Mechanicsville, N. Y.†	8,2	08
Medford, Ore	30,5	09 an
Medina, N. V. †	6,0	79
Melrose, Mass.†	16.8	80
Menacha Wie	6.0	81
Menominee, Mich	10,5	07
Menominee, Mich Menomonie, Wis Meriden, Conn Meridian, Miss	5,0. 28.5	28
Meridian, Miss	21,8	06
Merrill, Wis	8,7 14 O	52
Methuen, Mass.†** Mexico, Mo Miami, Fla	5,9	39
Michigan City Ind	20.7	71
Michigan City, Ind Middleboro, Mass.† Middlesboro, Ky Middletown, Conn	8,6	31
Middletown Corn	7,30	05
Middletown, N. Y.T.	17,3	81
Middletown, Ohio	14,8	27
Middletown, Ohio Middletown, Pa Milford, Mass. †	13,68	34
Millbury, Mass.ta	5,29	25
Millvale, Pa Millville, N. J.†	13.30	07
Milton, Mass.,	8,60	00
Milton, Pa	7,4	50
	7,2	40
Minneapolis, Minn3 Minot, N. Dak.†	43,41	36
Mishawaka, Ind	14,57	79
Mishawaka, Ind Missoula, Mont Mitchell, S. Dak.†	7 79	12
Moherly, Mossassas	12,16	2
Mobile, Ala	55,57	3
Moline, Ill Monessen, Pa	18,75	12
Monmouth. Ill	9,83	9
Mononganeia, Pa Monroe, La	12.24	8
Monroe, Mich	6,89	3
Montague, Mass.;= Montclair, N. J.; 2	25.02	9
Montgomery, Ala.*	41,77	7
Montpelier, Vt	5.01	0
Morgan City, La	5,47	7
Morgantown, W. Va	12,23 3.00	9 6
Moundsville, W. Va	10,43	3
Mt. Carmel, Ill	6,93	4
Mt. Clemens, Mich	7,70	7
Mt. Pleasant. Pa	5.81	2
Mt. Vernon, III Mt. Vernon, Ind	5,56	3
Mt. Vernon, N. Y. 1. 3	7.58	3
Muncie, Ind.	24.56	9
Munhall, Pa	5,18	5
Murphysboro, Ill	7,48	5

Muscatine, Iowa † 15,785 Muskegon, Mich. 25,442 Muskogce, Okia. 38,309 Nanticoke, Pa. 21,758 Napa, Cal. 5,791 Nashua, N. H. 26,901 Nashville, Tenn.* 114,899 Natchez, Miss. 11,791 Natick, Mass.† 11,119 Natick, Mass.† 11,119 Naugatuck, Conn. 13,651 Nebraska City, Neb. 5,488 Needham, Mass.† 6,542 Neenah, Wis. 5,734
Naugatuck, Conn. 13,851 Nebraska City, Neb 5,488 Needham, Mass.; 6,542 Neenah, Wis. 5,734 Negaunee, Mich. 9,103 Nelsonville, Ohio. 6,082 Newada, Mo. 7,176 New Albany, Ind. 20,829 Newark, N. 1, 366,721 Newark, N. 1, 6,408 Newark, Ohio. 28,271 New Beford, Mass 109,558 Newbern, N. C. 10,231 Newberry S. C. 5,028 New Brighton, Pa. 8,971 New Brighton, Pa. 8,971 New Britain, Conn. 50,612 New Brunswick, N. J. 330,019 Newburgh, N. V. 27,876 Newburgh, N. V. 27,876
Newburyport, Mass., 15,311 Newcastle, Ind
New Finadelpina, Unio 9,470 Newport, Ky 31,517 Newport, R. I † 30,472 Newport News, Va 20,448 New Rochelle, N. Y, † 31,758 Newton, Kan. † 7,620 Newton, Mass. † 43,113 Newtonville, Mass. 5,700 New Ulm, Minn. 5,648 New York, N. Y, † 5,585,772 Niles, Mich. 5,156 Niles, Ohio. 8,740 Noblesville, Ind. 5,073 Norfolk, Neb. 6,025 Norfolk, Va. 86,540 Norristown, Pa. 30,265 North Adams, Mass. † 21,654 Northampton, Mass. † 21,654 Northampton, Mass. † 21,654 Northampton, Pa. 8,729
North Attleboro, Mass.†* North Readdock Ps. 14 076
North Dridge, Mass, 1-9,254 North Tarrytown, N. Y.† S,421 North Tonawanda, N.Y.† North Yakima, Wash, 18,737
Norwalk, Conn. 28,033 Norwalk, Ohlo. 7,838 Norwich, Conn. 20,982 Norwich, N. Y.† 8,342 Norwood, Mass.† 10,977 Norwood, Ohlo. 20,220 Nutley, N. J. † 7,987 Oakland, Cal. 183,002 Oak Park, Ill. 24,330 Oconto, Wis. 5,629

Oelwein, Iowa.† 7,137 Ogden, Utah 29,528
Octwein, lowa_T 7.137
Ogden, Utah 29,528
Ogdensbug, N.Y. † 14.338
Oil City, Pa 18,645
Oklahoma Okla * 83 550
Oldforge, Pa 13,748
Oldtown, Me 6,317
Olean, N. Y. † 17.925
Olney, Ill 5.011
Olympia Wash # 6 006
Olympia, Wash 0,990
Отурпаці, Га 8,494
Omaha, Neb133,274
Oneida, N. Y.† 9,461
Oneonta, N. Y.† 10.474
Orange Conn 5 13 094
Ozonge Moss the 5 270
Orange, Mass. † 5,379
Orange, N. J. 7 29,805
Orange, Tex 5,527
Orangeburg, S. C. 5.906
Oshkosh, Wis 35,097
Ockalogge Town t 10 495
Oskalousa, 10wa. [10, 403
Oshkosh, Wis
Oswego, N. Y. 7 25,426
Ottawa, 111 9,535
Ottawa, Kan. † 9,127
Ottumwa Iowa t 22 438
Owntowns Mins F450
Ottumwa, Iowa † 22,438 Owatonna, Minn 5,658
Owensboro, Ky 18,011
O wosso, Mich. 10,039
Owosso, Mich. 10,039 Paducah, Ky. 24,170 Painesville, Ohio. 5.501 Palestine, Tex. 9,468 Pana, Ili. 6,055 Parsgould, Ark. 5,248 Paris, Ill. 7,664 Paris, Ky. 5859 Paris, Tex. 12,081
Painecville Ohio 5 501
Delegane, Omoses, 3,301
ratestime, 1ex 11,412
Palmer, Mass. 7 9,468
Pana, Ill 6,055
Paragould, Ark 5.248
Paris III 7 664
Dania Was COLO
raris, Ay 5 859
Paris, 1 ex
Park, Tenn
Parkersburg, W. Va., 19,719
Parsone Kan t 12 118
Pasadena Cal 40.880
Passaic. N. T 61,225
Paterson, N. J. + 124,815
Passaic, N. J. † 61,225 Paterson, N. J. †
Pawtucket, R. I. † 55,335
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Pawtucket, R. I. † 55,335 Peabody, Mass, †* 18,625 Peekskill, N. Y. † 15,502 Pekin, Ill. 10,524 Pensacola, Fla. 25,212 Peoria, Ill. 70,066 Perth Amboy, N. J. † 39,719 Perry, Lowa † 5,455 Peru, Ill. 7,984 Peru, Ill. 7,984 Peru, Ind. 11,179 Petaluma, Cal. 5,880
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Portland M. 62,161 Salem, O. 19, 13 Stemington, Com., 1, 4,161 Portland, Orc. 6,060 Salina, Kan. 1, 0,488 Streator, Ill. 14,207 Washington, Pr. 20,707 Washington, Pr. 20,707 Portmouth, N. 11, 11, 150 Salibary, M. 10, 46,603 Salibary, M. 10, 46,403 Saliba	202			
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Fortland, M. 4, 20, 108 Fortland, M. H. 11,539 Fortland, M. H. 11,530 Salisbury, M. C. 4, 11,531 Salisbury, N. C. 4, 11,531 Salisbury, N. C. 4, 11,531 Fortland, P. 11,531 Fortland, P. 11,531 Fortland, P. 11,531 Fortland, P. 11,531 San Annoino, Ter. 11,603 Fortland, P. 11,531 San Annoino, Ter. 11,603 San Francisco, Cal. 44,820 Fortidene, R. I. 11, 27,500 San Francisco, Cal. 44,820 Fortland, M. 10,103 San Francisco, Cal. 44,820 Fortland, M. 10,103 San Brancisco, Cal. 44,820 Fortland, M. 10,103 San Brancisco, Cal. 44,820 Fortland, M. 10,103 San Erancisco, Cal. 44,820 Fortland, M. 10,103 Fortland, M.	Portland, Ind 5,130	Salem, Ohio 9,523	Stonington, Conn 9,419	Washington, N. C 0.211
Fortland Ch.	Portland, Me 62,161	Salem, Ore	Stoughton, Mass. 0,962	Washington, ra 20,702
Fortmouth, N. 11. 19.88 Sallage N. 1. 19.03 Summit, N. 1. 1. 9.136 Pottsown Pa. 10.488 San Angelo, Ter. 10.232 Summit, N. 1. 9.136 Waterborn, Mas. 1. 13.197	Portland, Ore260,601	Salina, Kan.T 10,480	Streator, Ill	Ohio 7 277
Tottsown, P. 16,488 San Agelo, Tex. 16,033 Sumpler, S. 1,035 Sumpler, S.	Portsmouth, N. H 11,538	Salisbury, Md 0,090	Sunoik, va	Weterham Conn 92 517
Totarolle, N. 1,088 Shift Alase City, Unia works 1,081 Shift Alase City, Unia works 1,081 Shift Alase 1,081 Shift	Portsmouth, Ohio 27,511	Salisbury, N. C 7,133	Sulphur Springs, 1ex. 5,151	Waterbury, Connect 22 007
Fotzlown, Pa. 10,488	Portsmouth, Va 37,569	Salt Lake City, Utah* 109,530	Summit, N. J. T 9,130	Waterioo, lowa j 55,097
Fottwille, Pa. 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Pottstown, Pa 16,408	San Angelo, Tex 10,321	Sumter, S. C 9,145	Watertown, Mass. 1 10,515
Foughteepale, N. Y. J. 27, 148 San Bernardino, Call. 18-861 Superior, Was	Pottsville, Pa 21,684	San Antonio, Tex116,063	Sunbury, Pa 15,458	Watertown, N. Y.J 20,893
Prescott, Ariz. 5,092 Sant Diego, Cal. 48,907 Providence, R. 1*, 247,600 Providence, R. 1*, 247,600 San Francisco, Cal. 488,502 Provolence, R. 1*, 248,503	Poughkeepsie, N. Y. 7 32,714	San Bernardino, Cal. 15,603	Superior, Wis 44,344	Watertown, S. Dak.T. 8,313
Princeton, Ind. 6, 448	Prescott, Ariz 5,092	San Diego, Cal 48,900	Swampscott, Mass.7. 7,345	Watertown, Wis 8,994
Princeton, N. J., ** 5,078 Providence, R. J.**, ** 24,060 San Francisco, Cal. 448,060 San Francisco, Cal. 448,07 San Francisco, Cal. 44	Princeton, Ind 6,448	Sandusky, Ohio 20,127	Swissvale, Pa 7,381	Waterville, Me 12,300
Provis Claft	Princeton, N. J 5,678	Sanford, Me 10,314	Swoyersville, Pa 5,396	Watervilet, N Y. J 14,990
Provo, Utah. 10,018	Providence, R. I.*† 247,660	San Francisco, Cal448,502	Syracuse, N. Y.1145,237	Waukegan, 111 18,898
Pueblo, Colo. 51,218 San Luis Obispo, Cal. 5,157 Tallahdega, Ala. 5,554 Tallahdega, Ala. 5,554 Tallahdega, Ala. 5,555 Tallahdega, Ala.	Provo, Utah, 10,019	San Jose, Cal 37,086	Tacoma, Wash:103,418	Waukesha, Wis 9,302
Putnamy Cond. 6,647 Sanna Ana, Cal. 5,934 Putnamy Cond. 6,647 Sanna Ana, Cal. 5,934 Putnamy Cond. 6,647 Sanna Ana, Cal. 5,934 Putnamy Cond. 6,647 Sanna Ana, Cal. 5,918 Paraqua, P. 10,386 Rading, M. 44,288 Rahway, N. J. 1, 9,556 Santa Kon, R. 4, 5072 Santa F. N. 1, 1, 2, 5074 Santa F. N. 1, 1, 2, 5074 Santa F. N. 1, 1, 2, 5074 Santa F. S. 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Pueblo, Colo 51,218	San Luis Obispo, Cal. 5,157	Talladega, Ala 5,854	Wausau, Wis 18,352
Putnam Conn. 0,637 Santa Ana, Cal. 9,919 Tampa, Pa. 10,389 Councy, His. 36,780 Counc	Punxsutawney, Pa 10,043	San Rafael, Cal 5,934	Tallahassee, Fla.* 5,018	Waxahachie, Tex 6,205
Quincy, Ill. 33,730 Quincy, Mass. 1, 60,612 Radine, Wis 40,523 Radine, Wis 40,523 Radine, Wis 40,523 Radine, Wis 41,523 Radine, Wis 42,523 Radine, No. C.* 10,833 Rankin Station, Fa. 6,042 Radine, Mass. 1, 6,043 Radine, Mass. 1, 6,043 Radine, Mass. 1, 6,043 Radine, Mass. 1, 6,833 Radine, Mass. 1, 6,834 Reading, Mass. 1, 6,835 Reading, Mass. 1, 6,83	Putnam, Conn 6,637	Santa Ana, Cal 9,919	Tamaqua, Pa 10,396	Waycross, Ga 18,134
Quincy, Mass. - 4,634 Raine, Wis. - 4,538 Raine, Wis. - 4,548 Raine, Wis. - 4,54	Quincy, Ill 36,730	Santa Barbara, Cal13,818	Tampa, Fla 49, 156	Waynesboro, Pa 7,199
Racine, Wis. Webb City, Mo. 13,498 Rahway, N. I. 1, 9,856 Santa Monic, Cal. 7,471 Taurtow, N. Y. 5,753 Webb City, Mo. 13,498 Rahway, N. I. 1, 9,856 Santa Monic, Cal. 7,471 Taurtow, N. Y. 5,753 Webb City, Mo. 13,498 Rahway, N. I. 1, 13,484 Taylor, Pit. 1, 1108 Webster City, Iowal, Pit.	Ouincy, Mass. † 40,674	Santa Cruz, Cal13,482	Tarentum, Pa 7,414	Weatherford, Tex 5,074
Ralway, N. J. f. 9, 5,569 Raleigh, N. C. 7 18,533 Rankin Station, P. 8, 6,042 Rankin Station, P. 8, 6,042 Rankin Station, P. 8, 6,043 Reading, P. 10,3,038 Reading, P. 10,	Racine, Wis 44,528	Santa Fe, N. M.* 5,072	Tarrytown, N, Y.† 5,753	Webb City, Mo 13,299
Raleigh, N. C. * 19,833 Rankin Studio, P. * 6,042 Ravenna, Ohio. * 5,310 Red Jank, N. J. * 5,311 Red Bank, N. J. * 5,531 Red Jank, N. J. * 5,531 Red Wing, Minn. * 5,632 Red Wing, Minn. * 5,632 Remo, Nev	Rahway, N. J. t 9,586	Santa Monica, Cal 7,847	Taunton, Mass. † 36,161	Webster, Mass. † 12,565
Rawling, Ohio. 5, 310 Reading, Mass. * 6,942 Reading, Mass. * 6,943 Reading, Mass. * 6,943 Reading, Mass. * 6,943 Reading, Mass. * 6,426 Red Oka, Jova * 5,561 Red Oka, Jova * 5,561 Red Oka, Jova * 5,561 Red Wing, Minn 8,698 Schenectady, N. Y. 1, 80,318 Remon, Nev. 13,573 Remselaer, N. Y. 12,10 Remon, Nev. 13,573 Remselaer, N. Y. 12,10 Remon, Rev. 13,573 Remselaer, N. Y. 12,574 Remselaer, N. Y. 12,	Raleigh, N. C.* 19,833	Santa Rosa, Cal 7,817	Taylor, Pa 11,105	Webster City, Iowa.†. 5,834
Ravena, Ohlo. 5, 510 Reading, Pa. 103,81 Reading, Pa. 103,81 Reading, Pa. 103,81 Reading, Pa. 103,81 Saugus, Mass.†* 1, 202 Reading, Pa. 103,81 Saugus, Mass.†* 1, 202 Reading, Pa. 103,81 Saugus, Mass.†* 1, 202 Reading, Pa. 1, 13,488 Saugus, Mass.†* 1, 202 Reading, Pa. 1, 13,489 Saugus, Mass.†* 1, 203 Reading, Pa. 1, 13,489 Saugus, Mass.†* 1, 203 Saugus, Mass.†* 1,	Rankin Station, Pa 6,042	Sapulpa, Okla 11,431	Taylor, Tex 5,314	Webster Groves, Mo 7,080
Reading, Mas., 14	Ravenna, Ohio 5,310	Saratoga Sprs., N. Y. † 12,864	Taylorville, Ill 5.446	Weehawken, N. J. † 13,488
RedBank, N. J. 1, 6,631 Savannah, G. 6,7917 Savere, P. 1, 6,420 RedBank, N. J. 1, 8,631 Savannah, G. 6,7917 RedBank, N. J. 1, 8,631 Savannah, G. 6,7917 RedBank, N. J. 1, 8,631 Savere, P. 1, 6,420 Red Okt, Iowa J. 5,601 Schenectady, N. J. 1, 8,181 Schenado, N. J. 1, 8,182 Schenado, N. J. 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Reading, Mass.	Saugus, Mass. 1 10,226	Temple, Tex	Wellesley, Mass.
Red Bank, N. J. f. 8,631 Red Oak, Jown J. 5,601 Red Oak, Jown J. 5,601 Red Oak, Jown J. 5,601 Red Wing, Minn. 9,886 Reno, Nev 13,579 Reno, Reno, Nev 13,579 Reno, Re	Reading, Pa103,361	Sault Ste. Marie, Mich 13,449	Terre Haute, Ind 63,529	Wellington, Kan. 5.642
Red Oak, 10ws 5.601	Red Bank, N. J 8,631	Savannah, Ga 67,917	Terrell, Tex 7,050	Wellston, Mo 7,312
Red Ving, Minn 9,696 Scottdale, Pa 5,456 Scatton, Pa 411,361 Scatter, Marchine Scatter, Marchi	Redlands, Cal. 12,856	Sayre, Pa 6,426	Tewsbury, Mass. 1 5,265	Wellston, Ohio 6,875
Reno, Nev. 13,579 Rensselaer, N. 7, 11,210 Restrict, N. 11,220 Rensselaer, N. 7, 11,210 Rensselaer, N. 7, 11,210 Rensselaer, N. 7, 11,210 Restrict, N. 11,220 Restrict, N. 11,221 Restrict, N. 11,222 Restrict, N. 11,223 Restrict, N. 11,222 Restrict, N. 11,222 Restrict, N. 11,232 Restrict, N. 11,233 Restrict, N.	Red Oak, Iowa to 5,601	Schenectady, N. Y.t., 80,381	Texarkana, Ark 5.655	Wellsville, Ohio 7.769
Rensselaer, N, Y, † 11,210 Scattle, Wash. 313,029 Scattle, Wash. 313,029 Thromspowille, Com. 6,000 Revere, Mass. † 25,178 Scatilis, Mo. 18,488 Schindlander, Wis. 5,637 Richmond, Cal. 6,802 Schear, Ala. N, Y, 7,018 Throop, Pa. 5,133 Throop, Pa. 5,134 Throop, Pa.	Red Wing, Minn 9,696	Scottdale, Pa 5,456	Texarkana, Tex 11,722	West Allis, Wis 6,645
Revere, Mass. 1. 25,178 Sedalia, Mo. 19,826 Rhinelander, Wis. 5,637 Richmond, Cal. 6,802 Richmond, Ind. 23,932 Richmond, Ind. 23,932 Richmond, N. J. 5,647 Richmond, N. J. 5,647 Richmond, N. J. 6,672 Richmond, N. J. 5,672 Richmond, N. J. 5,673 Richmond, N. J. 5,673 Richmond, N. J. 5,674 Richmond, N. J. 5,677 Rochester, M. J. 5,677 Rochester, N. Y. 1,248,465 Rochester, N. Y. 1,248,465 Rochester, N. Y. 1,248,465 Rochester, N. J. 5,674 Rockland, Me. 8,174 Rockland, Me	Reno, Nev 13,579	Scranton, Pa 411,351	Thomasville, Ga 6,727	Westboro, Mass.
Revere, Mass.	Rensselaer, N. Y. t 11,210	Seattle, Wash313,029	Thompsonville, Conn. 6,000	Westbrook, Me 8,708
Richmond, Cal. 6, 602 Senez Falls, N.Y. 7, 018 Richmond, Ind. 23,832 Richmond, Ind. 23,832 Seymour, Ind. 6, 505 Tiffin, Ohio. 12,278 Reichmond, N.S. 5,340 Shamkin, Pa. 10,841 Sharon, Pa. 17,533 Tiffin, Ohio. 12,278 Reichmond, Vs. 9, 134,817 Sharon, Pa. 17,533 Tiffin, Ohio. 12,278 Richmond, Vs. 9, 134,817 Sharon, Pa. 17,533 Tiffin, Ohio. 12,242 West Helbooken, N. J. 7, 8, 147 Sharon, Pa. 17,533 Toledo, Ohio. 184,128 West Newton, Mass. 6, 005 Rockester, M. 1, 1, 2, 148 Sharon, Pa. 20,997 Rochester, N. 1, 1, 2, 148 Sharon, Pa. 20,997 Rochester, N. 1, 1, 2, 148 Sharon, Pa. 20,997 Rockester, N. 1, 1, 2, 148 Sharon, Pa. 20,997 Rockester, N. 1, 1, 2, 148 Sharon, Pa. 20,997 Rockester, N. 1, 1, 2, 148 Sharon, Pa. 20,997 Rockester, N. 1, 1, 2, 148 Sharon, Pa. 20,997 Rockester, N. 1, 1, 2, 148 Sharon, Pa. 20,997 Rockester, N. 1, 1, 2, 148 Sharon, Pa. 20,997 Rockester, N. 1, 1, 2, 148 Sharon, Pa. 20,997 Rockester, N. 1, 1, 2, 148 Sharon, Pa. 20,998 Rockester, N. 1, 1, 2, 148 Sharon, Pa	Revere, Mass. † 25,178	Sedalia, Mo 18,925	Three Rivers, Mich., 5,072	West Chester, Pa 12,722
Richmond, Cal. 6,802 Seneca Falls, N. Y. 1, 7,018 Richmond, Ind. 23,932 Seymour, Ind. 6,305 Richmond, Ky. 5,340 Shamokin, Pa. 10,841 Titusville, Pa. 8,531 Toledo, Ohio. 184,126 Tonawanda, N. Y. 1, 8,207 Ricigwood, N. J. 1, 6,729 Ricigwood, N. J. 1, 6,729 Ricigwood, N. J. 1, 6,729 Ricigwood, N. J. 1, 6,747 Shamokin, Pa. 10,841 Tonawanda, N. Y. 1, 8,209 Ricigway, Pa. 5,408 Shames, Ckia. 10,342 Shebuyaan, Wis. 27,843 Rochester, M. N. 1, 2,447 Shebanadoah, Lowa 5,605 Tenton, N. 1, 4, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Rhinelander, Wis 5,637	Selma, Ala 14,889	Throop, Pa 5,133	Westerly, R. I. † 10,175
Richmond, Ind. 23,932 Seymour, Ind. 6,305 Richmond, Ky. 5,405 Shamokin, Pa. 10,841 Sharon, Pa. 17,538 Toledo, Ohio. 184,128 West Hosboten, N. J. 738,776 Ridgewood, N. J. 6, 6,29 Ridgeway, Pa. 5,408 Riverside, Cal. 18,275 Roanoke, Va. 40,674 Rochester, Mnn. 7,845 Shamondoah, Iowar 5,537 Roanoke, Va. 40,674 Rochester, Mnn. 7,845 Shamondoah, Iowar 5,537 Rochester, N. H. 9,037 Rockided, Ill. 5,233 Shereyport, La. 32,908 Trenton, Mo. 7,270 Rockided, Ill. 5,233 Shereyport, La. 32,908 Trenton, Mo. 7,270 Rockided, Ill. 5,233 Shereyport, La. 32,908 Trenton, M. 1,47 103,190 West Tampa, Fla. 10,720 Weymouth, Mass. 1,48 Trenton, M. 1,49 Rockidand, Mass. 1,48 Toledo, Ohio. 1,49 Trenton, M. 1,	Richmond, Cal. 6,802	Seneca Falls, N. Y.t., 7,018	Tiffin, Ohio	Westfield, Mass. t 18.411
Richmond, Ky 13,407 Richmond, Va.*. 134,917 Rochmond, Va.*. 134,917 Rochmon	Richmond, Ind. 23,932	Seymour, Ind 6,305	Titusville, Pa 8.533	Westfield, N. J. † 8.147
Richemond, V. 3.* 134,917 Ridgewood, N. J. 1. 6,729 Ridgewood, N. J. 1. 6,729 Ridgeway, Pa. 5,408 Riverside, Cal. 18,297 Roanoke, Va. 40,574 Roanoke, Va. 40,574 Rochester, Minn. 7,844 Rochester, Minn. 7,844 Rochester, Minn. 7,844 Rochester, N. H. 9,037 Rochester, N. H. 9,037 Rochester, N. Y. 1. 248,405 Rochester, N. Y. 1. 248,405 Rochester, R. 1. 5,903 Rockford, Ill. 52,337 Rockford, Ill. 52,337 Rock Stein, Ill	Richmond, Ky 5,340	Shamokin, Pa 10,841	Toledo, Ohio 184,126	West Hoboken, N. I. t 38,776
Ridgway, Pa. 5, 408 Ridgway, Pa. 5, 408 Ridgway, Pa. 5, 408 Riverside, Cal. 18,297 Roanoke, Va. 40,574 Roanoke, Va. 40,574 Roanoke, Va. 40,574 Rochester, Minn. 7,344 Rochester, Minn. 7,344 Rochester, M. H. 9,037 Rochester, N. Y. 1, 248,465 Rochester, Pa. 5,903 Rochester, N. Y. 1, 248,465 Rochester, Pa. 5,903 Rockford, Ill. 52,337 Rochelli, S. C. 7,216 Rock Island, Ill. 25,945 Rockland, Me. 8,174 Rockland, Me. 8,174 Rockland, Me. 8,174 Rockland, Mass. 1, 20,929 Rockford, Ill. 25,945 Rock Springs, Wyo. 1, 5,886 Rock Springs, Wyo. 1, 5,886 Rock Springs, Wyo. 1, 5,8049 Rock Charles, M. 1, 6,192 Rock Rock, R. 1, 7,482 Rome, N. Y. 1, 24,426 Rome, R. 1, 1, 1, 8,049 Rockevell, N. J. 1, 8,049 Rosewell, N. Rosewell, N. J. 1, 8,049 Rosewell, N. J. 1, 8,049 Rosewell, N. Rosewell, R. Rosewell,	Richmond, Va.*134,917	Sharon, Pa 17,538	Tonawanda, N. Y. t. 8,290	West Newton, Mass. 6.005
Riverside, Cal. 18,297 Roanoke, Va. 40,574 Rochester, Minn. 7,844 Rochester, Minn. 7,845 Rochester, Minn. 7,845 Rochester, N. 47, 28,405 Rochester, Pa. 5,903 Rockford, Ill. 52,337 Rockhill, S. C. 7,216 Rock Island, Ill. 28,945 Rock Island, Ill. 2	Ridgewood, N. I. t 6,/29	Sharpsburg, Pa 8,710	Topeka, Kan.*† 46,747	West New York, N. 1.† 22,943
Revierside, Cal. 18,297 Sheboygan, Wis. 27,863 Roanoke, Va. 40,4574 Rochester, Minn. 7,844 Rochester, Minn. 7,844 Rochester, N. H. 9,037 Rochester, N. H. 9,037 Rochester, N. H. 9,037 Rochester, N. Y. 248,465 Shenandoah, Jowa 5,537 Rochester, Pa. 5,903 Rochester, Pa. 5,904 Rochell, Rochester, Pa. 5,905 Rochester, Pa. 5,904 Rochester, Pa. 5,905 Rochester, Pa.	Ridgway, Pa 5,408	Shawnee, Okla 16,312	Torrington, Conn 18,709	West Orange, N. J. 1, 13,610
Roanoke, Va. 40,574 Rochester, Minn. 7,844 Rochester, Minn. 9,837 Rochester, N. 47, 248,465 Rochester, N. 47, 248,465 Rochester, Pa. 5,903 Rockford, Ill. 52,337 Rockhill, S. C. 7,216 Rock Island, Ill. 26,845 Rome, G.a. 14,148 Rome, N. Y.†. 21,426 Rosewelt, N. J.†. 8,049 Rosedale, Kan.†. 7,498 Roswell, N. M. 6,172 Rumford Falls, Me. 5,427 Rutherford, N. J.†. 8,347 Ruthard, Vt. 14,417 Rye, N. Y.†. 5,339 Sacon, Me. 6,533 Sacon, Me. 6,5345 St. Albans, Vt. 6,381 Saint Augustine, Fla. 5,494 St. Bernard, Ohio. 5,002 St. Charles, Mo. 10,065 St. Cloud, Minn. 11,425 St. Johnsbury, Vt. 8,861 St. Joseph, Mich. 5,396 St. Cloud, Minn. 11,425 St. Johnsbury, Vt. 8,861 St. Joseph, Mich. 5,336 St. Lettin, Pa. (Schuylkill Co.). 25,817 St. Louis, Mo. 73,4687 St. Marys, Ohio. 5,732 St. Marys, Pa. 6,346 St. Paul, Minn. 2,38,760 St. Cloud, Minn. 11,425 St. Johnsbury, Vt. 8,861 St. Joseph, Mich. 5,336 St. Cloud, Minn. 11,425 St. Johnsbury, Vt. 8,861 St. Joseph, Mich. 5,336 St. Cloud, Minn. 11,425 St. Cloud, Minn. 11,425 St. Cloud, Minn. 11,425 St. Johnsbury, Vt. 8,861 St. Joseph, Mich. 5,336 St. Cloud, Minn. 11,425 St. Cloud, Minn. 11,425 St. Johnsbury, Vt. 8,861 St. Joseph, Mich. 5,336 St. Cloud, Minn. 11,425 St. Johnsbury, Vt. 8,861 St. Josep	Riverside, Cal 18,297	Shebovgan, Wis 27,863	Traverse City, Mich., 13,268	West Pittston, Pa 6,848
Rochester, M. H. 9,037 Rochester, N. H. 9,037 Rochester, N. H. 9,037 Rochester, N. Y. 248,465 Rochester, Pa. 5,093 Rockford, III. 52,337 Rochell, S. C. 7,216 Rock Island, III. 25,237 Rochell, S. C. 7,216 Rock Island, III. 25,945 Rockland, Me. 8,174 Rockland, Me. 8,174 Rockland, Mas. 1,707 Rockgrount, N. C. 10,355 Romersworth, N. H. 6,704 Rock Orner, S. 1998 Rockville, Conn 7,977 Rockprount, N. C. 10,355 Rome, Rome, N. Y. 1, 24,266 Roosevelt, N. J. 1, 8,049 Rosedale, Kan. 7, 7,498 R	Roanoke, Va 40,574	Shelbyville, Ind 10,493	Trenton, Mo.	West Springfield Mass. to
Rochester, N. Y., 248,465 Rochester, P. N. Y., 248,465 Rochester, P. N. Y., 248,465 Rochester, P. N. S., 903 Rockford, Ill. 52,337 Rockbill, S. C. 7,216 Sidney, Ohio. 6,607 Rockland, Me. 8,174 Rockland, Mes., 17,074 Rockland, Mes., 17,074 Rockland, Mes., 18,174 Solvar, R. Y. F. S., 866 Rock Springs, Wyo.† 5,699 Rockynle, Conn 7,977 Rockwille, Conn 7,977 Rocket, N. Y., 24,246 Roosevelt, N. J. 1, 8,049 Rosewell, N. M. 6,172 Rumford Falls, M. 6,172 South Milwaukee, Wis 6,092 Saco, Me., 36,598 St. Chair, P. (5,898) St. Albans, Vt. 6,381 St. Albans, Vt. 6,385 St. Clair, P. (Alegheny Co.). 5,640 St. Clair, P. (Alegheny C	Rochester, Minn 7,844	Shenandoah, Iowa † 5,637	Trenton, N. J.*† 103,190	11.339
Rochester, N. Y. 1. 248,465 Rochester, Pa. 5. 903 Rockford, Ill. 52,337 Rockford, Ill. 52,337 Rockford, Ill. 26,945 Rock Island, Ill. 26,945 Rock Springs, Wyo.† 5,699 Rockville, Conn 7,977 Rockymount, N. C. 10,835 Rome, R. Y. † 21,426 Somerwille, Mass. † 8,6854 Rome, N. Y. † 21,426 South Bend, Ind. 65,142 Rosswelt, N. J. † 6,038 Rome, N. Y. † 21,426 South Bend, Ind. 65,142 Rumford Falls, Me. 5,427 Rumford Falls, Me. 5,427 Rumford Falls, Me. 5,427 Rumford Ralls, Me. 5,427 Rumford Ralls, Me. 5,427 Rumford Ralls, Me. 5,427 Rumford N. J. † 8,347 Rutherford, N. J. † 8,347 Ruthand, Vt. 14,417 South Milwaukee, Wis 6,092 Saco, Me. 6,583 Sacramento, Cal. * 27,775 South Omaha, Neb. 28,388 Sacramento, Cal. * 27,777 South Wilwaukee, Wis 6,092 Saco, Me. 6,583 Sacramento, Cal. * 27,777 South Norwalls, Conn. 29,388 St. Albans, V. † 6,361 South Fortand, Me. 7,471 South Milwaukee, Wis 6,092 Springfield, Mil. * 6,747 St. Bernard, Ohio. 5,002 St. Charles, Mo. 10,056 St. Clair, Pa. (Allegheny Co.). 5,640 St. Clair, Pa. (Allegheny Co.). 5,640 St. Clair, Pa. (Allegheny Co.). 5,640 St. Louis, Mo. 734,687 St. Joseph, Mich. 5,936 St. Joseph, Mich. 5,936 St. Joseph, Mich. 5,936 St. Joseph, Mo. 27,732 Salem, Mass. * 37,200 Salem, M. J. † 6,6953 Stockcon, Cal. 25,702 Salem, Mass. * 37,200 Salem, Mass. * 37,200 Salem, M. J. † 6,6953 Stockcon, Cal. 25,702 Salem, Mass. * 37,200 Salem, M. J. † 6,6953	Rochester, N. H 9,037	Shenandoah, Pa 28,097	Trinidad, Colo 12,274	West Tampa, Fla. 10,772
Rocklester, Pa. 5,903 Rockford, Ill. 52,337 Rockbill, S.C. 7,216 Sidney, Ohio. 6,607 Rock Island, Ill. 26,945 Rockland, Me. 8,174 Sioux Fill, Ivova., 1,61,774 Turner Falls, Mass., 5,200 Rockoville, Conn. 7,074 St. Charles, Mo. 1,408 St. Albans, Vt. 6,381 St. Albans, Vt. 6,385 St. Clair, Pa. (Alegbeny Co.). 5,640 St. Clair, Pa. (Alegbeny Co.	Rochester, N. Y.1 248,465	Sheridan, Wyo.t 8,906	Trov. N. Y.t	Weymouth, Mass.
Rockford, III. 52,337 Shreveport, La. 32,908 Tucson, Ariz. 16,604 White Plains, N. Ya. 42,815 Rock Island, III. 25,945 Sidney, Ohio. 6,607 Tusa. Okla. 27,634 White Plains, N. Ya. 42,817 Rockland, Mas. 8,174 Rockland, Me. 8,174 Rockland, Me. 8,174 Rockland, Me. 9,177 Color, Mass. 1,017 White Plains, N. Ya. 2,208 Rockland, Mass. 7,074 Rock Springs, Wo.† 5,699 Skowhegan, Me. 5,200 Turcaloosa, Ala. 9,817 Whiting, Ind. 6,535 Rockland, Mass. 1,1,1 6,035 Conserville, Mass. 5,200 Twin Falls, Idaho. 5,258 Whitting, Ind. 6,132 Whitting, Ind. 6,352 Whitting, Ind. 6,532 Whitting, Ind.	Rochester, Pa 5,903	Sherman, Tex 13,157	Troy, Ohio	13,969
Rock Island, Ill. 25,945 Sidney, Ohio. 6,607 Tulss. Okla. 27,634 Whiting Ind. 6,587 Rockland, Me. 8,174 Sioux Fills, Island, Ill. 25,945 Solver, Ill. Whiting, Ind. 6,587 Rockland, Me. 8,174 Skowhegan, Me. 5,200 Tugcaloosa, Ala. 9,817 Whiting, Ind. 6,587 Rock Springs, Wyo-f. 5,699 Rockwille, Conn. 7,977 Somerwille, N. 5,200 Twin Falls, Idaho. 5,258 Whitiman, Mass.†* 7,520 Rock, Springs, Wyo-f. 5,699 Rockwille, Conn. 7,977 Somerwille, Mass.† 7,603 Tyrone, Pa. 1,116 Wilkinsaburg, Pa. 21,070 Rome, N. Y.†. 2,1426 Roosevelt, N. J.†. 8,049 South Bend, Ind. 65,114 Browney, N. J.†. 7,482 Joannow, N. J.†. 21,701 Wilkinsaburg, Pa. 21,701 Rumford Falls, Me. 5,427 Rutherford, N. J.†. 8,348 South Morwalk, Conn 8,988 South Norwalk, Conn 8,988 South Norwalk, Conn 9,861 Wilson, N. C.	Rockford, Ill 52,337	Shreveport, La 32,906	Tucson, Ariz. 15,604	Wheeling, W. Va 42.817
Rock Island, Jll	Rockhill, S. C 7,216	Sidney, Ohio 6,607	Tulsa, Okla	White Plains, N. Y.t., 19,287
Rockland, Me. 8,174 Sloux Falls, S. Dak. †. 20,929 Tuscaloosa, Ala. 9,817 Whitman, Mass.†** 7,520 Rock Springs, Wyo.† 5,699 Solvay, N. Y. †. 5,886 Tyrin Falls, Idaho. 5,758 Wilchita, Kan.† 53,582 Wilchita, Kan.† 53,682 Wilchita, Kan.† 53,680 Wilchita, Kan.† 74,762 Wilchita, Kan.† 74,762 Wilchita, Kan.† 74,762 Wilchita, Kan.† 74,762 Wilchita, Kan.† 84,762 Wilchita, Kan.	Rock Island, Ill. 26,945	Sioux City, Iowa, † 61,774	Turners Fails, Mass., 5,200	Whiting, Ind 6.587
Rock Springs, Wyo.† 5,699 Rock Springs, Wyo.† 5,699 Rock Springs, Wyo.† 5,699 Rockyille, Conn. 7,977 Rockymount, N. C. 10,855 Rome, Ca. 14,146 Somerwille, Mass.† 8,68,344 Tyler, Tex. 11,333 Wichita Falls, Tex. 10,738 Wichita Falls, Tex. 10,788 Tyler, Tex. 11,333 Wichita Falls, Tex. 10,789 Wilkes Barre, Pa. 73,680 Roswell, N. J 8,044 Roswell, N. J 6,038 South Amboy, N. J.† . 7,422 Urbana, Ill. 9,375 Williamsport, Pa. 21,779 Williamsport, Pa. 33,181 Williamsport, Pa. 21,779 Williamsport, Pa. 20,567 Vallosta, Pa. 10,142 Williamsport, Pa. 21,779 <	Rockland, Me 8,174	Sioux Falls, S. Dak. t. 20,929	Tuscaloosa, Ala 9.817	Whitman, Mass.th. 7.520
Rock Springs, Wyo.f. 5,699 Rockville, Conn 7,977 Rockville, Mass., † 86,854 Tyrone, Pa 7,176 Wilkinsburg, Pa 21,709 Wilkinsburg, Pa 21,701 Wilkinsburg, Pa 6,133 Wilkinsburg, Pa 17,739 Wilkinsburg, Pa 21,701 Wilkinsburg, Pa 21,701 </td <td>Rockland, Mass.t., 7.074</td> <td>Skowhegan, Me 5,200</td> <td>Twin Falls, Idaho. 5.258</td> <td>Wichita, Kan. t 53,582</td>	Rockland, Mass.t., 7.074	Skowhegan, Me 5,200	Twin Falls, Idaho. 5.258	Wichita, Kan. t 53,582
Rockylle, Conn	Rock Springs, Wyo.t. 5,699	Solvay, N. Y. t 5.886	Tyler. Tex	Wichita Falls, Tex. 10.760
Rockymount, N. C. 10,855 Romery 14,148 Rome, Ga. 14,148 Rome, N. Y. † 21,426 South Amboy, N. J. † 6,038 South Amboy, N. J. † 7,482 South Amboy, N. J. † 7,482 South Bend, Ind. 65,114 South Bethelhem, Pa. 22,840 Union, S. C. 5,623 Union, N. J. † 8,149 Union, S. C. 5,623 Union, N. J. † 8,140 Union, S. C. 5,623 Union, N. J. † 8,140 Union, S. C. 5,623 Union, N. J. † 8,140 Union, S. C. 5,623 Union, N. J. † 8,140 Union, S. C. 5,623 Union, N. J. † 8,140 Union, S. C. 5,623 Union, N. J. † 8,140 Union, S. C. 5,623 Union, N. J. † 8,140 Union, S. C. 5,623 Union, N. J. † 8,140 Union, S. C. 5,623 Union, N. J. † 8,140 Union, S. C. 5,623 Union, N. J. † 8,140 Union, S. C. 5,623 Union, N. J. † 8,140 Union, S. C. 5,623 Union, N. J. † 8,247 Union, S. C. 5,623 Union, N. J. † 8,247 Union, S. C. 5,623 Union, N. J. † 8,247 Union, S. C. 5,623 Union, N. J. † 8,247 Union, S. C. 5,623 Union, N. J. † 8,247 Union, S. C. 5,623 Union, N. J. † 8,247 Union, S. C. 5,623 Union, N. J. † 8,247 Union, S. C. 5,623 Union, N. J. † 8,247 Union, S. C. 5,623 Union, N. J. † 8,247 Union, S. C. 5,623 Union, N. J. † 8,248 Union, N. J. † 8,249 Union, S. C. 5,623 Union, N. J. † 8,249 Union, S. C. 5,623 Union, N. J. † 8,249 Union, S. C. 5,623 Union, N. J. † 8,249 Union, S. C. 5,623 Union, N. J. † 8,249 Union, S. C. 5,623 Union, N. J. † 8,249 Union, S. C. 5,623 Union, N. J. † 8,249 Union, S. C. 5,628 Union, S. C. 5,628 Union, N. J. † 8,249 Union, S. C. 5,628 Union, S. C. 5,628 Union, S. C. 5,628 Union, S. C. 5,628 Union, S. C. 5	Rockville, Conn 7,977	Somersworth, N. H. 6.704	Tyrone, Pa	Wilkes Barre, Pa 73,660
Rome, Ga. 14,148 Rome, N. Y. †. 21,426 Roosevelt, N. J. †. 8,049 Rosevelt, N. J. †. 8,049 Rosevelt, N. M. 6,172 Rumford Falls, Me. 5,427 Rutherford, N. J. †. 8,347 Rutland, Vt. 14,417 Rye, N. Y. †. 5,339 Sacramento, Cal. *6,237 South Norwalk, Conn. 8,983 Sacramento, Cal. *6,2717 Saginaw, Mich. 53,988 St. Albans, Vt. 6,381 Saint Augustine, Fls. 5,494 St. Albans, Vt. 6,381 Saint Augustine, Fls. 5,494 St. Clair, Pa. (Alegheny Co.). 5,640 St. Clair, Pa. (Alegheny Co.). 5,640 St. Clair, Pa. (Alegheny Co.). 5,640 St. Clair, Pa. (Alegheny Co.). 6,455 St. Cloud, Minn. 11,425 St. Louis, Mo. 734,667 St. Louis, Mo. 734,667 St. Louis, Mo. 734,667 St. Marys, Pa. 6,346 St. Marys, Pa. 6,	Rockymount, N. C 10,855	Somerville, Mass. t 86,854	Union, N. L.† 21.739	Wilkinsburg, Pa 21.701
Rome, N. Y.†. 21,426 Rosevelt, N. J.†. 8,049 Rosevelt, N. J.†. 7,482 South Bend, Ind. 85,114 South Bethlehem, Pa. 22,840 Urbana, Ill. 9,375 Urbana	Rome, Ga 14, 148	Somerville, N. I.t 6,038	Union, S. C 5.623	Williamsport, Pa. 33,181
Roosevelt, N. J. † 8, 0.49 Rosedale, Kan † 7, 498 South Bethlehem, Pa. 22, 840 Rosewell, N. M. 6, 172 Rumford Falls, Me. 5, 427 Rutherford, N. J. † 8, 347 Rutland, Vt. 14, 417 Rye, N. Y. † 5, 339 Saco, Me. 6, 583 South Ornage, N. J. † 5, 366 South Ornage, N. J. † 5, 569 South Ornage, N. J. † 5, 599 South New Portland, Me. 7, 471 South River, N. J. † 6, 691 Springfield, Mass. † 5, 994 Spokane, Wash 138, 857 Springfield, Mass. † 13, 362 Springfield, Mass. † 10, 2971 Springfield, Mass. † 10, 2971 Springfield, Mass. † 10, 2971 St. Louis, Pa. (Allegheny Co.) 6, 455 St. Cloud, Minn. 11, 425 Springfield, Moss. † 10, 2971 St. Desph, Mch. 5, 936 St. Joseph, Mch. 5, 936 St. Joseph, Mch. 5, 936 St. Louis, Mo. 734, 667 St. Louis, Mo. 734, 667 St. Marys, Pa. 6, 346 St	Rome, N. Y 21,426	South Ambov, N. I.t., 7,482	Uniontown, Pa 19,140	Willimantic, Conn. 12,208
Rosedale, Kan.	Roosevelt, N. J. † 8,049	South Bend, Ind 65,114	Urbana Ill 9.375	Wilmerding, Pa 6,133
Roswell, N. M 6,172 Rumford Falls, Me 5,477 Rutherford, N. J. f	Rosedale, Kan. † 7,498	South Bethlehem, Pa. 22,840	Urbana, Ohio	Wilmington, Del. 92,057
Rutherford, N. J. †. 8.347 Ruthard, Vt. 14,417 Rye, N. Y. †. 5,339 Saco, Me. 6,583 Sacramento, Cal. * 62,717 Saginaw, Mich. 53,988 St. Albans, Vt. 6,381 Saint Augustine, Fla. 5,494 St. Bernard, Ohio. 5,002 St. Charles, Mo. 10,058 St. Clair, Pa. (Allegheny Co.). 5,640 St. Clair, Pa. (Schujkill Co.). 6,455 St. Cloud, Minn. 11,425 St. Lons, Pa. (Schujkill Springfield, Min. 5,038 St. Joseph, Mich. 5,936 St. Joseph, Mich. 5,936 St. Joseph, Mich. 5,936 St. Louis, Mo. 32,712 St. Louis, Mo. 32,712 St. Marys, Pa. 6,346 St. Ramarys, Ohio. 5,732 St. Marys, Pa. 6,346 St. Ramarys, Pa. 6,346 St. Ramarys, Pa. 6,346 St. Ramarys, Pa. 6,346 St. Ramara, N. Y. † 8,370 Salem, Mass. † 37,200 Salem, Mass. † 37,200 Salem, Mass. † 7,489 South Hadley, Mass. † 5,179 South Milwaukee, Wis 6,092 Vallejo, Cal. 12,777 Vallejo, Cal. 12,778 Vallejo,	Roswell, N. M 6,172	Southbridge, Mass. † 14,217	Utica, N. Y.† 80.589	Wilmington, N. C. 27,781
Rutland, Vt. 14,417 Ryc, N. Y.† 5,339 Saco, Me. 6,583 Sacramento, Cal.* 62,717 Saginaw, Mich. 53,988 St. Albans, Vt. 6,331 Saint Augustine, Fla. 5,494 St. Chaires, Mo. 10,058 St. Clair, Pa. (Allegheny Co.). 5,640 St. Clair, Pa. (Allegheny Co.). 5,645 St. Clair, Pa. (Schuylkill Co.) 6,455 St. Cloud, Minn. 11,425 St. Johnsbury, Vt. 8,561 St. Johnsbury, Vt. 8,561 St. Joseph, Mich. 5,934 St. Joseph, Mich. 5,936 St. Joseph, Mich. 5,936 St. Louis, Mo. 734, 687 St. Marys, Pa. 6,346 St. Paul, Minn.* 238,768 St. Rays, Pa. 6,346 St. Paul, Minn.* 238,768 Stillwater, Minn. 10,193 Salem, Mass.† 37,200 Salem, M. N. † 8,370 Salem, M. S.† 7,489 Vallejo, Cal. 12,777 Vallejo, Cal. 12,781 Va	Rumford Falls, Me 5,427	South Hadley, Mass.	Valdosta, Ga. 7.656	Wilson, N. C. 6.717
Rutland, Vt. 14,417 Rye, N. V.† 5,339 South Milwaukee, Wis 6,092 South Norwalk, Conn. 8,968 South Orange, N. J.† 5,866 South Orange, N. J.† 6,691 South River, N. J.† 6,691 Spartanburg, S. C. 20,125 St. Bernard, Ohio. 5,002 Spencer, Mass.† 5,994 Spokane, Wash 135,857 Springfield, Ill.* 57,972 Co.	Rutherford, N. J. 1 8,347	5.179	Vallejo, Cal 12,777	Windber, Page 8.013
Rye, N. Y.f.	Rutland, Vt 14,417	South Milwaukee, Wis 6,092	Valley City, N. Dak . † 4.783	Winchendon, Mass. to 5,008
Saco, Me	Rye, N. Y.† 5,339	South Norwalk, Conn. 8,968	Valparaiso, Ind.	Winchester, Ky. 7,156
Sacramento, Cal. * . 62,717 Saginaw, Mich	Saco, Me 6,583	South Omaha, Neb 28,368	Vancouver, Wash 11,930	Winchester, Masst 10.005
Saginaw, Mich 53,988 St. Albans, Vt 6,381 Saint Augustine, Fla. 5,494 St. Bernard, Ohio. 5,002 Spencer, Mass, *** 5,994 Spokane, Wash 135,857 Springfield, Ill.** 5,7972 Springfield, Mass., ** 102,971 St. Clair, Pa. (Allegheny Co.). 5,640 St. Clair, Pa. (Schuylkill Co.) 6,455 St. Cloud, Minn. 11, 425 St. Johnsbury, Vt. ** 8,561 St. Johnsbury, Vt. ** 8,561 St. Joseph, Mich. 5,936 St. Joseph, Mich. 5,936 St. Louis, Mo. 734, 687 St. Louis, Mo. 734, 687 St. Marys, Pa. 6,346 St. Paul, Minn. 238, 768 St. Paul, Minn. 238, 768 St. Paul, Minn. 238, 768 St. Paul, Minn. 236, 768 Stelenn, Pa. 15,126 St. Paul, Minn. 236, 768 Stelenn, Mass. † 37,200 Salem, Mass. † 37,200 Salem, Mass. † 37,200 Salem, M. J. † 6,951 South Portland, Me. 7,471 South River, N. J. † 16,491 Vincennes, Ind. 16,759 Vincland, N. J. † 6,531 Vincland, N. J. †	Sacramento, Cal.* 62,717	South Orange, N. J.t. 5,866	Van Wert, Ohio 7.157	Winchester, Va 5.864
St. Albans, Vt. 6, 381 Saint Augustine, Fla. 5, 494 St. Bernard, Ohio. 5, 002 St. Charles, Mo. 10, 058 St. Clair, Pa. (Allegheny Co.) 5, 640 St. Clair, Pa. (Allegheny Co.) 6, 455 St. Loud, Minn. 11, 425 St. Joseph, Mich. 5, 936 St. Joseph, Mich. 5, 936 St. Joseph, Mo. 82, 712 St. Louis, Mo. 734, 687 St. Marys, Ohio. 5, 732 St. Marys, Ohio. 5, 732 St. Marys, Pa. 6, 346 St. Paul, Minn. 238, 768 St. Paul, Minn. 238, 768 St. Paul, Minn. 5, 936 Stelenory, Pa. 15, 126 St. Paul, Minn. 5, 936 Stelenory, Pa. 15, 126 St. Paul, Minn. 5, 134 Ware, Mass, † 9, 346 Wareham, Mass, † 5, 176 Warren, Pa. 14, 945 Wintona, Minn. 18, 58 Winston, Pa. 12, 727 Winston Salem, N. C. 29, 93 Winthrop, Mass. † 2, 789 Wintona, Minn. 18, 58 Winston, Pa. 28, 708 Winthrop, Mass. † 2, 789 Wintona, Minn. 18, 58 Winston, Pa. 28, 708 Winthrop, Mass. † 2, 789 Wintona, Minn. 18, 58 Winston, Pa. 28, 708 Winton, Pa. 28, 708 Winton, Pa. 28, 708 Walls Walla, Walla, Walla, Wash. 23, 275 Walling Minn. 11, 12, 781 Wacc, Tel. 4, 907 Wakefield, Mass. † 12, 782 Walla Walla, Wash. 23, 275 Walling Minn. 12, 781 Woodbury, N. J. † 5, 28 Walla Walla, Wash. 3, 789 Woodbury, N. J. † 8, 561 Walla Walla, Wash. 3, 789 Woodbury, N. J. † 8, 561 Walla Walla, Wash. 3, 782 Walla Walla, Wash. 3, 784 Walla Walla, Wash. 3, 784 Walla Walla, Wash. 3, 784 Walla Walla, Wash. 3, 7	Saginaw, Mich 53,988	South Portland, Me 7,471	Vicksburg, Miss. 22,090	Winfield, Kan. t. 6.138
Saint Augustine, Fla. 5, 494 St. Bernard, Ohio. 5, 002 St. Charles, Mo. 10, 056 St. Clair, Pa. (Allegheny Co.). 5,640 St. Clair, Pa. (Schuylkill Co.). 6,455 Springfield, Mis. 1, 7,972 St. Cloud, Minn. 11,425 St. Johnsbury, Vt. 8,561 St. Johnsbury, Vt. 8,561 St. Joseph, Mich. 5,936 St. Joseph, Mich. 5,936 St. Louis, Mo. 32,712 St. Louis, Mo. 32,712 St. Marys, Ohio. 5,732 St. Marys, Pa. 6,346 St. Paul, Minn.* 238, 766 St. Paul, Minn.* 238, 766 St. Paul, Minn.* 238, 766 Salamanca, N. Y. 7, 8,370 Salem, Mass. 7, 37,200 Salem, Mass. 7, 37,200 Salem, N. J. 7, 6,531 Vineland, N. J. 7, 65,51 Vineland, N. J. 7, 6,531 Virginia, Minn. 12,787 Waco, Tex. 28,707 Wakefield, Mass. 1, 12,781 Wababa, Ind. 8,718 Woburn, Mass. 1, 12,781 Woburn, Mass. 1, 12,781 Woburn, Mass. 1, 12,781 Woburn, Mass. 1, 12,781 Walla Walla, Wash. 23,275 Wallingford, Conn 12,072 Walendeld, Mass. 1, 12,781 Woodury, N. J. 1, 6,531 Worker, Pa. Wootsete, R. I. 1, 40,07 Valendeld, Mass. 1, 12,781 Waco, Tex. 12,772 Walendeld, Mass. 1, 12,781 Walla Walla, Wash. 23,275 Wallingford, Conn 12,072 Walendeld, Mass. 1, 12,781 Walla Walla, Wash. 23,275 Wallingford, Conn 12,072 Walendeld, Mass. 1, 12,781 Walla Walla, Wash. 23,275 Wallingford, Conn 12,072 Walendeld, Mass. 1, 12,781 Walla Walla, Wash. 23,275 Wallingford, Conn 12,072 Walendeld, Mass. 1, 12,781 Walla Walla, Wash. 23,755 Wallingford, Conn 12,072 Walendeld, Mass. 1, 12,781 Walla Walla, Wash. 23,755 Wallingford, Conn 12,072 Wallingford, Conn 12,	St. Albans, Vt 6,381	South River, N.J.† 6,691	Vincennes, Ind.	Winona, Minn. 18,583
St. Bernard, Ohio. 5,002 Spencer, Mass, ** 5,994 Sp. Charles, Mo. 10,056 St. Clair, Pa. (Allegheny Co.) 5,640 St. Clair, Pa. (Allegheny Co.) 5,640 St. Clair, Pa. (Schuylkill Springfield, Mass., † 102,971 Springfield, Mass., † 102,971 Springfield, Mol. 50,058 Staunton, III. 7,057 Staunton, III. 7,057 Staunton, III. 50,053 Staunton, III. 50,058 Springfield, Mol. 50,058 Springfield, Mol. 50,058 Staunton, III. 7,057 Staunton, III. 50,058 Staunton, III	Saint Augustine, Fla 5,494	Spartanburg, S. C 20,125	Vineland, N. I.t. 6.531	Winsted, Conn. 7,754
St. Charles, Mo. 10,056 St. Clair, Pa. (Allegheny Co.)	St. Bernard, Ohio 5,002	Spencer, Mass. † 5,994	Virginia, Minn. 13,671	Winston Salem, N. C. 29,034
St. Clair, Pa. (Allegheny Springfield, Mlss., 102.971 St. Clair, Pa. (Schuylkill Springfield, Mo. 38,885 102.971 Springfield, Mo. 38,885 Springfield, Mo. 59,365 St. Joseph, Mich. 5,936 Staunton, Ill. 5,048 Wapakoneta, Ohio. 5,349 Wareham, Mass., 1 30,154 Wareham, Mass., 1 30,155 Wallawalla, Wash. 23,275 Woodburn, Mass., 1 60,46 Woodburn, Mass., 1 60,46 Woodburn, Mass., 1 60,46 Wapakoneta, Ohio. 5,349 Wapakoneta, Ohio. 5,349 Wareham, Mass., 1 5,349 Wareham, Mass., 1 5,176 Warren, Pa. 14,045 Warre	St. Charles, Mo 10,058	Spokane, Wash 135,657	Wabash, Ind 8,716	Winthrop Mass to 12 758
Co.)	St. Clair, Pa. (Allegheny	Springfield, Ill.* 57,972	Waco, Tex., 28,707	Winton, Pa
St. Clair, Pa. (Schuylkill Springfield, Mo. 38,885 Springfield, Ohio. 50,058 Staunton, University of Staunton, Unive	Co.)	Springfield, Mass. † 102,971	Wakefield, Mass. to 12,781	Wohurn, Mass to 16 410
Co.)	St. Clair, Pa. (Schuylkill	Springfield, Mo 38,685	Walla Walla, Wash. 23,275	Woodbury, N. I.t. 5 288
St. Cloud, Minn	Co.) 6,455	Springfield, Ohio 50,058	Wallingford, Conn. 12 072	Woonsocket, R. I.t. 40.075
St. Joseph, Mich. 5,936 Staunton, Ill. 5,048 Wapakoneta, Ohio. 5,349 Wayandotte, Mich. 9,16 St. Joseph, Mo. 82,712 Staunton, Va. 11,316 Wapakoneta, Ohio. 5,349 Wayandotte, Mich. 9,16 St. Marys, Ohio. 5,732 Steelton, Pa. 15,126 Waren, Mass.† 5,176 Waren, Ohio. 12,074 Waren, Ohio. 12,074 Vonkers, N. Y.† 90,88 Salamanra, N. Y.† 8,370 Stevens Point, Wis. 8,692 Salamanra, N. Y.† 8,370 Stillwater, Minn. 10,193 Salem, Mass.† 37,200 Stockton, Cal. 25,702 Washington, Ind. 7,854 Washingt	St. Cloud, Minn 11,425	Spring Valley, Ill 7.035	Walepole, Mass, t= 5,478	Wooster, Ohio. 6 136
St. Joseph, Mich 5,936 St. Joseph, Mo 22,712 St. Louis, Mo 734,687 St. Eelton, Pa 15,126 St. Marys, Ohio 5,732 St. Marys, Ohio 5,732 St. Paul, Minn 238,768 St. Paul, Minn 238,768 St. Paul, Minn 238,768 St. Paul, Minn 25,817 St. Paul, Minn 25,877 St. Paul, Minn 25,876 St. Paul, Minn 25,877 St. Paul, Minn	St. Johnsbury, Vt. 8,561	Stamford, Conn 29,032	Waltham, Mass. t 30 154	Worcester, Mass † 162 603
St. Joseph, Mo	St. Joseph, Mich 5,936	Staunton, Ill 5.048	Wapakoneta, Ohio 5.349	Wyandotte, Mich 9 18
St. Louis, Mo	St. Joseph, Mo 82,712	Staunton, Va 11,316	Ware, Mass, to 9,346	Xenia, Ohio. 8 704
St. Marys, Ohio	St.Louis, Mo734, 687	Steelton, Pa 15,126	Wareham, Mass.th. 5 176	Yazoo City, Miss 6 700
St. Marys, Pa. 6,346 Steubenville, Ohio 25,817 Steubenv	St. Marys, Ohio 5,732	Sterling, Ill 7,467	Warren, Ohio	Yonkers, N. V. t. 90 88
St. Paul, Minn	St. Marys, Pa 6.346	Steubenville, Ohio 25,817	Warren, Pa 14.045	York, Neb.
Salem, Mass. †	St. Paul, Minn.*236,766	Stevens Point, Wis 8,692	Warren, R. I. † 7.241	York, Pa
Salem, N. J. † 6,953 Stockton, Cal 25,702 Washington, D. C353,378 Ypsilanti, Mich 6,23 Washington, Ind 7,854 Zanesville, Ohio 28,38	Salamanca, N. Y. t 8,370	Stillwater, Minn 10,198	Warwick, R. I.t. 13.302	Youngstown Ohio 93.34
Salem, N. J. 7 6,953 Stoneham, Mass. 1. 7,489 Washington, Ind. 7,854 Zanesville, Ohio 29.90	Salem, Mass. 7 37,200	Stockton, Cal 25,702	WASHINGTON, D. C., 353, 378	Ypsilanti, Mich. 6 23
	Salem, N. J. 7 6,953	Stoneham, Mass. † 7,489	Washington, Ind. 7.854	Zanesville, Ohio. 29.94

DISTANCES BETWEEN THE LARGER CITIES OF THE UNITED STATES

The distances are by the shortest usually traveled railroad routes. Compiled from the War Department's official table of distances.

*****	York	0,0	ila- delphia	Louis	a	Baltimore	Cleveland	10	Fran-	Pittsburg		-in	4 80	ing-	
FROM	e₩	Chicago	Phila- delr	l i	oston	ltin	949	Buffalo	n F	ttst	Cincin- nati	Milwau- kee	New Or- leans	Washing	Minnea- polis
	Z	5	<u>a</u>	St.	ğ.	Å.	ō	MA M	San	전	Ğ.	Mi	Z	B [™]	Mi
To	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.	Mls.
Albany	145 876		236 785	1,028 611	202 1,106							917 818	1,517 496	1,142	1,252 1,153
Baltimore	188	802	97	934	418		474	398	3,076		593	887	1,184	40	1,222
Boston	217 442	1,034 525	321 416	1,230 731	499	418 398	682 183	499	3,308 2,799	674 270	926 427	1,119 610		458 438	1,454 945
Chicago	912		821	284	1,034	802	357	525	2.274	468	298	85	912	790	420
Cincinnati	757 584	298 357	666 493	341 548	926 682	593 474	244	427 183	2,572 2,631	313 135		383 442	829 1,073	553 437	718
Columbus, O	637	314	546	428	820	511	138	321	2,588	193	116	399	935	471	777 734
Denver Detroit	1,934 693	1,022 272	1,843 669	916 488	2,056 750	1,850 649	1,379 173	1,537 251	1,371 2,546	1,490 321	1,257 263	1,107	1,347 1,092	1,810 655	884 692
Duluth	1.391	479	1,300	728	1,513	1.281	701	1,004	2.238	947	777	422	1,447	1,269	162
	2,310 1,792	1,465 1,144	2,219	1,245 860	2,414 2,012	2,179 1,594	1,703 1,408	1,915	1,287 2,157	1,866 1,481	1,586	1,550 1,229	1,195 410	2,139 1,554	1,521 1,340
GrandRapids, Mich.	821	178	815	462	878	796	332	379	2,452	462	308	263	1,090	764	598
Helena Indianapolis	2,452 825	1,540 183	2,361 734	1,549 240	2,574 965	2,342 704	1,897 283	2,065 466	1,250 2,457	2,008 381	1,838 111	1,455 268	2,152 888	2,320 664	1,119
Jackson ville, Fla	983	1,097	892	975	1,213	795	1,085	1,193	3,098	1,057	841	1,182	616	755	1,517
Kansas City Los Angeles	1,342 3,149	458 2,265	1,251 3,058	277 2,084	1,466 3,273	1,211 3,018	755 2, 562	967 2,774	1,981 475	898 2, 705	618 2,425	543 2,350	880 2.007	1,171 2,978	573 2.301
Louisville	871	304	780	274	1,040	703	358	541	2,468	427	114	389	778	663	727
Memphis Milwaukee	1,157	527 85	1,066	311 369	1,387	969 887	738 442	921 610	2,439	807 553	494 383	612	396 997	929 875	894 335
Minneapolis	1,332	420	1,241	586	1,454	1,222	777	945	2,359 2,096	888	718	335	1,285	1,210	
Mobile	1,231	929 841	1,140	647 1.051	330	1,043 574	1,029 623	1,212 434	2,623 3,115	1,098 704	785 826	926	141	1,003	1,233 1,125
Newark, N. J	9	903	82	1,056	226	179	575	405	3,177	435	748	988	1,363	219	1,323
New Haven	$\begin{array}{c} 76 \\ 1.372 \end{array}$	980 912	167 1.281	1,141	140 1.602	264 1.184	628 1.073		3,254	520 1,142	833 829	1,065	1,448	1.144	1,400 1.28 5
New York		912	91	1,065	217	188	584	442	3,186	444	757	997	1,372	228	1,332
Ogden	2,496 1.405	1,494 493	2,315 1.314	1,414	2,528 1,527	2,296 1,295	1,851 1,750	2,019 1,018	780 1,781	1,962 961	1,792 791	1,579 578	1,891	2,284 1,283	1,31 6 381
Philadelphia	91	821		974	321	97	493	416	3,095	353	666 313	906 553	1,281 1.142	137 302	1,241 888
Pittsburg Portland, Me	444 332	468 1.149	353 436	621 1.345	674 115	334 533	135 797		2,742 3,423	789	1.041	1.234	1,717	573	1,569
Portland, Ore	3,204		3,113		3,326	3,094	2,649	2,817	772 3,308	2,760 634	2,590 926	2,378 1.119	2,746	3,082	2,042 1,454
Providence	190 530	1,034		1,230 1,343	45	378 718	682 795	612	3,287	876	1,039	1,098	1,827	786	1,433
Richmond, Va Rochester, N. Y	343	879	252	918	573	155	553 251	553 68	3,153	417 338	581 495	964 688	1,046	115 I 394 I	
St. Joseph, Mo	373 1.392	603 470	361 1.301	799 327	430 1.474	354 1.261	875	1,058	1,867	948	668	555	941	1,221	485
St. Louis	1,065	284	974	576	1,230	934	548		2,194 2,086	621 878	341 708	369 325	699	894 1.200	586 10
	1,322 1,943	1.204	1,231 1,852	920		1,212 1,755		1,651	1,911	1,541	1,217	1,289	571	1,715	,320
San Francisco 3	3,186	2,274	3,095	2,194	3,308	3,076	2,631 2,596	2,799 . 2,764	957	2,742 2,707	2,572			3.064 2 $3.029 1$	2,096 1.818
	3,151 2,812	2,239					2,590	2,425	1,205	2,368	2,198	1,815	2,535	2,690 1	,479
pringfield, Mass	139	935	230	1,131	99	327	583	400	3,209	583 1,269	827	1,020 1.394	1,511	367 1 967 1	,355 .729
rampa, Fla	705	1,309	1,104 615	437	795	595	1,297	296	2,518	261	203	329	1,032	7595	664
Washington	228	790	137	8941	458	401	437	2438 1	3,064	302	5 53′	875	1,144).	'1	.210

Twenty years have elapsed since the discovery of "finger prints" by Francis Galton. The average man does not realize that this mode of identification is absolutely unassailable, never bean found on the fingers of any two persons. To-day it is utilized in many odd but useful ways. Unlettered persons no longer need to sign documents with the mark of the cross; a finger print is far more positive and absolutely proof against forgery. Banks are already confirming signatures and corporations are beginning to identify employees in this way. Finger prints are taken as aignatures to receipts for payment to the workmen constructing the Panama Canal.

Lieutenant Faurot of the New York Police Department has suggested also that "birth certificates be accompanied by the baby's and mother's finger prints," and it has been mooted even that all individuals establish a record of their identity by depositing their finger prints in the police or some other legally designated office, to be duplicated in a central office at the national capitol. Since the finger prints are reliable until decomposition has obliterated them, their value in establishing lost identity is obvious. Many suits for fraudulent insurance claims would be prevented if the insured were compelled to add a finger print to the usual signature, furnishing mute but unerring evidence

NON-CONTIGUOUS TERRITORY OF THE UNITED STATES

THE PHILIPPINE ISLANDS

There are 3,139 charted islands composing the Philippine group of which 1473 are yet without a name. These islands came into the possession of the United States as a result of the war with Spain settled by the Treaty of Paris, December 10, 1898. The formal date of acquisition was April 11, 1899.

The area of the Philippines is 115,026 square miles, approximately equal to that of the New England States plus New York and New Jersey. The largest islands and their areas in square miles are Luzon, 40,969; Mindanao, 36,292; Samar, 5,031; Panay, 4,611; Mindoro, 3,851; and Negros, 4,881. The census of 1911 gives the population of the Philippines as 8,460,579, a density of 71.96 to the square mile.

The Philippines are governed by civil officers, the principal ones being appointed by the President of the United States. The Assembly is selected by vote of the various provinces. In 1912, President Taft sent a special message to Congress reporting that the Philippines were self supporting, but the There are 3,139 charted islands composing the Philippine

reporting that the Philippines were self supporting, but the fact depends upon whether the support of the army in the Philippines, which costs about \$12,000,000 annually, should be charged against the expense of the Islands or not.

HAWAII

HAWAII

The Hawaiian Islands in the mid-Pacific are about 2,000 miles west of San Francisco. They were annexed to the United States by a resolution of Congress approved July 7, 1898, and organized as a territory, June 14, 1900.

There are eight principal islands, their area in square miles being as follows: Hawaii, 4,210; Maui, 760; Oahu, 600; Kauii, 590; Molokai, 270; Lanai, 150; Niihau, 97; Kahoolawe, 63. The total area is 6,740 square miles.

The census of 1912 gives the total population as 200,065, Honolulu City containing about one-fourth. There are over 80,000 Lanarese.

80,000 Japanese.

The government of the Hawaiian Islands is carried on by a Senate and House of Representatives locally elected and a governor appointed by the President of the United States.

In 12 years of territorial government these Islands increased in imports and exports 125 per cent. About 90 % of the trade is done with the mainland of the United States.

ALASKA

Alaska was acquired from Russia on June 20, 1867 by the payment of \$7,200,000. Civil government was established May 17, 1884. The area of this territory is 590,884 square miles. The population, as given in 1912, is 64,520 about equally divided between whites and natives.

The Alaskan Engineering Commission was created under Act of March 12, 1914, which empowered the President to construct or lease a railroad or railroads to connect the interior of Alaska with one or more of the open paying ble ports, thus pre-

struct or lease a railroad or railroads to connect the interior of Alaska with one or more of the open navigable ports, thus providing for the development of agricultural, mining and other interests, and opening up the country for settlement. Authority was also granted to purchase existing railroads, to construct and operate telegraph and telephone lines, and make reservations of public lands in Alaska necessary for the purposes of the railroad. For the execution of the work a commission of three engineers was appointed by the President to make the required surveys. They are to report to the Secretary of the Interior, under whom the president has placed the general administration of the work. tion of the work.

tion of the work.

Alaska's greatest resources are her minerals, and in the development of these the precious metals still hold the predominant place. The shipments of domestic gold to the States during 1914, amounted to \$15,201,300, but slightly less than the importation of merchandise into Alaska from the States. The statistics of commerce have shown an increase in the value of the shipments other than gold and silver from Alaska to the States. Canned salmon and copper ore were the items which increased most. The coal used in Alaska for all purposes during the year was over 116,000 tons. The inadequate laws, the pending contests on private entries, and the general withdrawal of the coal lands have combined to prevent the development of Alaskan coal. The fishing industry stands second in its productiveness. second in its productiv

PORTO RICO

Porto Rico is 1,050 miles southeast of Key West, Florida. The Island was formally acquired by the United States, April 11, 1890. Its area is 3,435 square miles and its population as given in 1911 is 1,151,579, a density of nearly 340 to the sq. mile. The governor is appointed by the President of the United States. The legislative department is made up of an Executive Council composed of eleven members, five of whom are native Porto Ricans, all appointed by the President, and a House of

Delegates elected by the people. Porto Rico is principally known for its sugar, coffee and tobacco production, its sugar crop amounting to nearly \$27,000,000 in 1913.

The Island of Guam is located east of the Philippines, 5,200 miles from San Francisco. It was acquired April 11, 1899. Its area is 210 square miles and its population, as estimated in 1911, is 12,240. The island is used by the United States as a naval base. Guam is very fertile, its principal products being

tropical fruits, rice, corn and sugar.

TUTUILA GROUP, SAMOA

This group of islands was acquired March 8, 1900; area
77 square miles and population (1912) 7,251. The islands are
unimportant at present but Tutuila has one of the finest harbors

in that part of the world.

PANAMA CANAL ZONE

The Panama Canal Zone is a strip of land 10 miles wide stretching across the Isthmus of Panama. This strip was acquired by the United States February 26, 1904. Its area is 448 square miles with a population, as estimated by the Isthmian Canal Commission, of 62,810.

Territorial Delegates at Washington

ALASKA - - James Wickersham, D., Fairbanks HAWAII - - J. Kuhio Kalanianaole, R., Honolulu PHILIPPINES - - Manuel L. Quezon, D., Tayabas RESIDENT COMMISSIONERS - Anuel Earnshaw, D., Manila PORTO RICO - Luis Muñoz Rivera, D., San Juan RESIDENT COMMISSIONER

PERIODICALS IN THE UNITED STATES
(From Ayer's American Newspaper Annual)

States	Daily	Weekly	Total all issues
Alabama L	26 34	184 262	242 324
Arkansas California	167	574	932
		213	401
Connecticut	38	91	156
Delaware	3	26	35
Florida	26	155	202
Georgia	26	258	358
Colorado Connecticut Delaware Florida Georgia Idaho Illinois Indiana Iowa	12	143	169
Illinois	171	1,062	1,826
Indiana	146	518	762
lowa	65 69	756	944
Kansas Kentucky Louisiana	29	625	735
Louisiana	19	163	222
		96	139
Maryland	17	112	171
Maryland Massachusetts Michigan Minnesota Mississippi Missouri	90	389	672
Michigan	78	521	720
Minnesota	47	634	763
Mississippi	17 84	187	233
Missouri	84	752	986
Montana	21	218	253
Montana Nebraska Nevada New Hampshire New Jersey New York No. Carolina No. Dakota	29	556	640
Nevada	11 13	27	41
Now Jercey	46	287	110 379
New York	211	1,117	2,115
No. Carolina	27	196	300
No. Dakota	10	343	362
Ohio	174	680	1.115
Oregon	. 34	218	299
Oregon Oklahoma Pennsylvania	50	511 .	596
Pennsylvania	218	809	1,358
Rhode Island	. 14 16	25	55
So. Carolina	10	111	1. 168
Topperse	19	371	412
So. Carolina So. Dakota Tennessee Texas	100	857	1.081
Utah	100	0.4	9.45
Vermont	9	78	08
Utah Vermont Virginia Washington West Virginia	30	171	255
Washington	37	321	414
West Virginia	. 32	166	217
W ISCOUSIN	. 00 .	535	685
Wyoming	. 6	73	89

FARM CROPS IN THE UNITED STATES NUMBER AND ACREAGE OF FARMS

			Number of Acres in Farms					
	Census year	Number of farms	Improved	Unimproved	Total	Average number of acres to a farm	cent of farm land im- proved	Total Value all Farm Property
Total Continental U.S Geographic Divisions	1890	4,564,641	357,616,755	265,601,864	623,218,619	136.5	57.4	*16,082,267,689
	1900	5,737,372	414,498,487	424,093,287	838,591,774	146.2	49.4	20,439,901,164
	1910	6,361,502	478,451,750	400,346,575	878,798,325	138.1	54.4	40,991,449,090
New England	1890	189,961	10,738,930	9,016,654	19,755,584	104.0	54.4	585,267,817
	1900	191,888	8,134,403	12,414,596	20,548,999	107.1	39.6	639,645,900
	1910	188,802	7,254,904	12,460,027	19,714,931	104.4	36.8	867,240,457
Middle Atlantic	1890	468,608	31,599,094	11,388,847	42,987,941	91.7	73.5	2,384,703,476
	1900	485,618	30,786,211	14,073,879	44,860,090	92.4	68.6	2,310,886,728
	1910	468,379	29,320,894	13,870,162	43,191,056	92.2	67.9	2,959,589,022
East North Central	1890	1,009,031	78,774,647	27,012,178	105,786,825	104.8	74.5	4,751,184,987
	1900	1,135,823	86,670,271	29,670,490	116,340,761	102.4	74.5	5,683,925,367
	1910	1,123,489	88,947,228	28,981,920	117,929,148	105.0	75.4	10,119,128,066
West North Central	1890	914,791	105,517,479	45,282,690	150,800,169	164.8	70.0	3,766,511,744
	1900	1,060,744	135,643,828	65,364,885	201,008,713	189.5	67.5	5,820,994,481
	1910	1,109,948	164,284,862	68,363,259	232,648,121	209.6	70.6	13,535,309,511
South Atlantic	1890	749,600	41,677,371	58,480,202	100,157,573	133.6	41.6	1,333,395,489
	1900	962,225	46,100,226	58,197,280	104,297,506	108.4	44.2	1,454,031,316
	1910	1,111,881	48,479,733	55,302,522	103,782,255	93.3	46.7	2,951,200,773
East South Central	1890	655,766	35,729,170	43,270,189	78,999,359	120.5	45.2	1,054,730,138
	1900	903,313	40,237,337	41,010,306	81,247,643	89.9	49.5	1,195,868,790
	1910	1,042,480	43,946,846	37,573,783	81,520,629	78.2	53.9	2,182,771,779
West South Central	1890	431,006	30,559,654	46,889,281	77,448,935	179.7	39.5	835,791,560
	1900	754,853	39,770,530	136,720,672	176,491,202	233.8	22.5	1,619,954,613
	1910	943,186	58,264,273	110,885,703	169,149,976	179.3	34.4	3,838,154,337
Mountain	1890	49,398	5,460,739	9,305,123	14,765,862	298.9	37.0	349,550,941
	1900	101,327	8,402,576	37,994,708	46,397,284	457.9	18.1	601,264,180
	1910	183,446	15,915,002	43,618,418	59,533,420	324.5	26.7	1,757,573,368
Pacific	1890	96,480	17,559,671	14,956,700	32,516,371	337.0	54.0	1,021,131,537
	1900	141,581	18,753,105	28,646,471	47,399,576	334.8	39.6	1,113,329,789
	1910	189,891	22,038,008	29,290,781	51,328,789	270.3	42.9	2,780,481,777
Alaska	1900 1910	12 222	159 2,659	39,885	159 42, 544	13.2 191.6	100.0	15,686 1,060,510
Hawaii	1900	2,273	294,545	2,315,068	2,609,613	1,148.1	11.3	74,084,988
	1910	4,320	305,053	2,285,547	2,590,600	599.7	11.8	96,363,229
Porto Rico	1910	58,371	1,570,304	514,858	2,085,162	35.7	75.3	. 102,377,801

ACREAGE OF THE VARIOUS CROPS

The acreage of hay and forage, tobacco and cotton has more than doubled in thirty years while that of the combined cereals has increased somewhat less than two-thirds. The aggregate acreage harvested of the general farm crops as reported in the census years 1909, 1899, 1889, and 1879 is given in the following statement:

Crop	Acreage Harvested						
Cereals	1914	1909	1899	1889			
	207,009,530*	191,395,963	184,982,220	140,378,857			
	49,145,000**	72,230,776	61,691,069	52,948,797			
	1,223,500	1,294,911	1,101,460	695,301			
	36,722,000	32,043,838	24,275,101	20,175,270			
	3,708,000	3,668,855	2,938,778	2,600,750			
	603,000	641,255	537,312	524,588			

Does not include Emmer and Spelt and Kaffir Corn. (Figures for the above are not available for 1914)

^{**} Does not include Forage

WEALTH OF FARM PRODUCTION

The world's history does not record any such production of farm crops in one country as that grown by the United States in the past four years. Since 1899 the value of farm crops has more than doubled. Most productive of all agricultural years was 1914. Following is the wealth of farm production as given by the Department of Agriculture:

Calendar	Wealth	Calendar	Wealth
Year	Production	Year	Production
1901	\$5,302,000,000	1908	\$7,778,000,000
	5,594,000,000	1909	8,760,000,000
	5,887,000,000	1910	8,694,000,000
	6,121,778,000	1911	8,417,000,000
	6,273,997,000	1912	9,532,000,000
	6,764,210,000	1913	9,790,000,000
	7,488,000,000	1914	9,873,000,000

GENERAL FARM CROPS BY SECTIONS 1910 CENSUS REPORT

The distribution of the several crops throughout the country The distribution of the several crops throughout the country is shown in the following table, which gives for each crop the percentage of the total acreage which is reported from each of the nine geographic divisions. To make the significance of the table somewhat clearer, figures are also given for larger sections of the country, termed, respectively, the North, the South, and the West, and for the sections east and

west of the Mississippi River. The North includes the first four divisions, the South the next three, and the West the last

	PER CENT OF TOTAL ACREAGE						
SECTION	Cereals	Hay and forage	Pota- toes	To- bacco	Cotton		
United States. New England. Middle Atlantic. E. No. Cent. W. No. Cent. So. Atlantic. E. So. Cent. W. So. Cent. Mountais. Pacific.	100.0 0.2 3.9 22.1 43.7 8.0 7.1 10.2 1.8 3.0	100.0 .5.3 11.8 20.4 37.9 4.0 3.4 4.5 6.9 5.8	100.0 6.4 19.9 30.1 21.4 6.5 3.3 3.2 4.6 4.6	100.0 1.7 3.5 13.3 0.4 37.6 43.3 0.1 (*)	0.3 28.1 24.7 46.9 (*)		
The North The South The West	70.0 25.3 4.8	75.4 11.9 12.7	77.7 13.0 9.3	18.9 81.1 (*)	0.3 99.7 (*)		
E. of Miss W. of Miss	41.3 58.7	44.9 55.1	66.2 33.8	99.4	52.8 47.2		

^{*}Less than one-tenth of one per cent.

THE CEREALS

In the United States as a whole a little more than one-half of the acreage devoted to cereals is in corn, a little less than one-fourth in wheat and somewhat more than one-sixth in oats.

one-fourth in wheat and somewhat more than one-sixth in oats. In the Pacific states the acreage of corn is insignificant and that of barley exceeds that of oats. Corn occupies the leading place in the important cereal-producing regions, but in the New England and Middle Atlantic divisions the first place is held by oats, and in the Pacific and Mountain divisions by wheat. In the South corn occupies over three-fourths of the total cereal acreage, but in the North the proportion is less than one-half. In both of these sections wheat is second in importance, with oats a close third. In the West, however, wheat occupies one-half the cereal acreage, and oats and barley each about one-fifth, while the acreage of corn is insignificant.

The distribution of the total acreage of each particular crop among the different geographic divisions and sections shows that for the three leading cereals, corn, oats, and wheat, the largest proportion of the acreage is found in the West North

Central division and the next largest in the East North Central division. In the acreage of barley the prominence of the West North Central division is even more clearly marked, but the Pacific division shows a larger proportion of the total than the East North Central. The center of buckwheat production is in the Middle Atlantic division, which has more than two-thirds of the total acreage. In the case of tye the East North Central division leads, followed by the Middle Atlantic and West North Central, which have almost identical proportions

About three-fifths of the corn acreage and more than three-fourths of that of each of the other cereals mentioned in the table are in the North. The South has a much larger proportion of the acreage of corn than of that of the other cereals, while the West has nearly one-fourth of the acreage of barley.

The following table gives the acreage of the cereal group as a whole and of the several cereal crops, as reported at each census from 1879 to 1999:

Crop	Acreage in the United States					
All Cereals Corn Oats Wheats Barley Buckwheat Rye Rough Rice Emmer and Spelt Kaffir Corn	103,435,000 38,442,000 53,541,000 7,565,000 792,000 2,541,000 693,530	1909 191,395,963 98,382,665 35,159,441 44,262,592 7,698,706 878,048 2,195,561 610,175 573,622 1,635,153	1899 184,982,220 94,913,673 29,539,698 52,588,574 4,470,196 807,060 2,054,292 342,214 (e) 266,513	1889 140,378,857 72,087,752 28,320,677 33,579,514 3,220,834 837,164 2,171,604 161,312 (*)		

^{*}Does not include Emmer and Spelt and Kaffir Corn.

All of the cereals except wheat and rice produced their largest crops in 1912. The gain is 25.6 above the five year average. The total production of the seven cereals amounted to 5,609,807,000 bushels. The largest total of any preceding year was 4.958,559,000 in 1910.

The acreage of the cereals increased rapidly during the 20 years preceding 1899, being in that year nearly 45,000,000 greater than in 1889 and 66,000,000 greater than in 1879. In the last decade, however, the increase in the acreage of the cereal crops amounted to but little more than 6,000,000. Corn and wheat made their greatest gains in the decade ending with

Figures for these crops for the year 1914 are not available.

1899, and since that time the increase in the acreage of corn has been relatively small, while that of wheat has fallen off more than 8,000,000 acres. After an increase of over 12,000,000 in the acreage of oats between 1879 and 1889 this crop made a comparatively slight increase in the following 10 years, but in the decade ending with 1909 gained nearly 6,000,000 acres. Of the minor cereals, barley and rice show substantial increases in each decade, while the acreage of rye increased about one-sixth between 1879 and 1889, but shows comparatively little change during the next 20 years, and the acreage of buckwheat has remained practically stationary during the 30 years covered by the table. by the table.

ROTATION OF CROPS

Farmers adopt rotations because they desire (1) to get larger yields and profits per acre; (2) to distribute their work more equitably throughout the season; (3) to be more certain of an annual income than is possible where a single crop is grown; (4) to maintain the productiveness of the farm; and (5) to minimize the injury from weeds, insect pests, and diseases that generally accompany a system of one-crop farming. A systematic rotation whereby different crops iollow one another from year to year on each field of the farm in orderly succession makes possible a more careful planning of the year's work.

In planning a rotation it is necessary to keep in mind the income it will bring, the needs of the land, the requirements of the stock kept on the place, the effects of each crop on the yields of the succeeding crops, and the profitable distribution of labor. There are three main classes of crops to deal with in planning a rotation: (1) Small grain crops, (2) hay crops, and (3) cultivated crops. Long experience has taught that as a general proposition permanently productive and profitable farming requires that these three classes of crops be systematically rotated with each other. This proposition holds true for the com belt. corn belt.

In the rotations discussed, corn is the cultivated and cleaning crop of the rotation, but the area of corn land that can be cultivated efficiently with the usual farm force is limited. This makes desirable the planting of some other crop, such as wheat or cats, which can be put in before corn is planted and requires no cultivation. When the corn is laid by, the harvesting of the grain can begin.

Both the corn and the small grain reduce the productiveness of the land; therefore to offset this a soil-enriching or leguminous crop, such [as clover, cowpeas, vetch, soy beans, or alfalia,

nous crop, such las clover, cowpeas, vetch, soy beans, or alfalta, should be grown.

By a leguminous crop is meant one that has the capacity, due to bacterial organisms in the soil, of collecting nitrogen from the air and storing it in small nodules on the roots of the plant. Nitrogen is one of the most expensive elements required for plant growth, and under a properly managed rotation of crops including the growing of legumes, it may be supplied at a cost of two and a half to three, not over five cents a pound, while if purchased on the market it would mean an outlay of at least

20 cents a pound.

The following table gives the relative percentages of nitrogen contained in the roots and tops of these different leguminous

	Lbs. of nitro- gen in tops	Per cent. of nitrogen in
Crop	per acre	the roots
Cowpeas	65.2	6 %
Soy beans	130.9	6½%
Vetch	108.	11 %
Crimson clover	128. 2	6 %
Alfalfa	54.8	42 %
Red clover		32 %

The crops to be grown in a rotation depend mainly on the

But even after the most careful rotation the land gradually loses in productiveness unless replenished by fertilizers. Stable manure will replace a large part of the nitrogen absorbed by the crops. Phosphorus and potassium are also necessary. The phosphorus may be replenished by the use of steamed bone meal at the rate of about 200 pounds to a ton. Kainite will supply the same proportion of potassium.

MIGRATION OF WEEDS AND PLANTS

Most of the weeds and plants growing by the roadside came from foreign lands. The United States Agricultural Depart-ment at Washington gives a list of 200 weeds. Of this number

ment at Washington gives a list of 200 weeds. Of this number 180 are of foreign parentage. Our governmental authorities assert that the 180 foreign weeds scattered over the North American continent all proceeded from the Atlantic seaboard to the West with only rare exceptions.

The jimson weed is native in Mexico, but the plant is native also in other warm climates. This weed appeared in the tobacco fields of our pioneer parents at Jamestown. It was known to the early settlers as Jamestown weed, and our word jimson is a corruption of that first name.

Our tany, horehound and carin all of which grow wild in

Our tansy, horehound and catnip, all of which grow wild in this country, came over from Europe, and of course were un-known before the arrival of the white race.

Our tansy, norehouth and carmip, an of winein grow whith arthis country, came over from Europe, and of course were unknown before the arrival of the white race.

The mullein stalk, so common as to be almost universal in this continent, came from Europe and was utterly unknown to the Indians. The mullein is a great traveller. It is found in almost every country on the globe. In the few countries where it has failed to arrive by its own peculiar methods of travel it has been carried by man, as a curosity. Being a citizen of so many countries it has a long list of common names, such as Adam's flannel, blanket leaf, bullock's lungwort, candlewich, feltwort, hare's beard, hedge taker, ice leaf, Jacob's staff, lady's foxglove and many others.

The dandelion is not a native weed. Perhaps the seeds came in the bedding or in packages of goods. The dandelion has gone to every part of the country except the South. It is a weed wherever it appears, but is useful as a salad or greens, and the root has medicinal properties.

The dock family is another kind of weed from Europe. The yellow dock is the most common and is found throughout the United States. The yellow dock is a perennial; the leaves are lance shaped, acute and wavy with crisped margins. The burdock is a coarse, unsightly biennial weed of the aster family; it was introduced from Europe. The United States Pharmacopoeia recognizes the root of the burdock as valuable in the treatment of blood and skin diseases.

Of all the weed nuisances received here from Europe among the worst is the cocklebur, known in the books as the clot bur. This pest probably came over on the back of a sheep enmeshed in the wool. The fruit of the cocklebur is about an inch long, thickly covered with stiff spines hooked at the end, well adapted to clinging to wool. The farmers used to say the frost never catches the cocklebur for the acutum; the bur knows intuitively when frost is sure to come and therefore rushes to maturity in good time. The bur will remain in the ground for years and will

rears and will germinate when the environments are propitious. This weed has no value.

The poke weed, or poke berry is native here. It is one weed which America has given to Europe, where it is cultivated as an ornamental plant. The poke is certainly a very showy and beautiful plant, but the earliest use made of it by the pioneer settlers in America was to press the juice out of the ripe fruit for red ink. The root is very thick and fleshy; it is good for rheumatism when converted into a poultice, it is said.

According to the researches of F. Hoch, a German investigator, oats, barley, and rye have originated from wild forms growing along the Mediterranean; the varieties of wheat have developed from species in Persia; bückwheat is undoubtedly of Siberian or Manchurian origin; garden beans flourish in a wild state upon the slopes of the Andes; the parentage of our cultivated cabbage, lettuce, spinach, asparagus, celery and most root crops can be traced to the Mediterranean; the Orient has undoubtedly furnished civilization with the onion, horseradish, cucumber and melon; Peru has given it the Irish and sweet potatoes, egg plant and tomato; Central Asia, the rhubarby while our apples, quinces, pears, currants, gooseberries and California grapes are of European parentage and our strawberries have resulted from crossing the native with the Chilean species.

INSECTICIDES AND FUNGICIDES

For Chewing Insects

ARSENIC in the form of paris green, or arsenate of lead. The Latter, arsenate of lead, is so much preferable to paris green that formulas for it only are given. Paris green, if used in too large a quantity, will burn plants; arsenate of lead will not, even though used in large quantities, and it remains in suspension much longer than paris green. It is also sold under various trade names. Arsenate of lead is white, and comes in paste form. It is usually used at the rate of six ounces to five gallons of water, but may be used at the rate of one pound to five gallons.

RESIN SOAP is used to make arsenical poisons stick to smooth surfaces, like cabbage, and contains five pounds pulverized resin, one pound concentrated lye, one pint fish or any other animal

oil, five gallons water.

To make: Put the resin and oil and a gallon of water in an iron kettle, and heat; when the resin has dissolved, add the lye, stirring the solution; add the balance of the water and boil the whole for two hours, or until the solution, when put into cold water, will make a clear, amber-colored liquid. The solution, when boiling, should be kept up to five gallons by adding water to make up for loss by evaporation. To use: Dilute one pint of the soap with sixteen pints of water, and add three pints of milk of lime or whitewash, and one-fourth pound of paris green; or it can be diluted with bordeaux mixture.

of pairs green; or it can be diduted with bordeaux mixture.

Poisons Brann Mash.—One ounce white arsenic, one to
two ounces brown sugar, six to ten ounces bran. Mix these
together, and add enough water to make a wet but not sloppy
mash. This is used as a poison bait.

Hellebore, an internal poison for insects, but not to man.
It is used in place of paris green or arsenate of lead, where there

is danger of the poison remaining on the parts of plants to be eaten. Dust dry on the leaves, especially the under side, when the dew is on, or sprinkle the leaves to insure its sticking. As a solution it can be sprayed on, using one ounce to one to three gallons of water.

For Sucking Insects

KEROSENE EMULSION.—One-half pound hard soap, two gal-

lons kerosene, one gallon water.

Ions kerosene, one gallon water.

Shave up the soap and dissolve it in the water, which should boil. Remove from the stove and, while still boiling, add the kerosene and thoroughly churn it. The best way to do this is by means of a bucket spray pump. Churn until it becomes a soft, butter-like mass. This is a stock solution; to use, dilute with ten to twelve parts of water. For scale insects in winter, stock solution can be used without dilution.

WHALE-OIL SOAP.—As a winter spray against scale insects.

Whalf-oil Soap.—As a winter spray against scale insects, use two pounds to one gallon of water. Trunk and branches can be painted by hand in summer, but this strength will injure the leaves. Only one application of this strength should be used

in a season.

In a season. One pound to eight to ten gallons of water for aphids.

One pound to eight to ten gallons of water for aphids.

Pyrethrum, or Insect Powder.—Burn in the house, to kill fleas, flies, mosquitos and cockroaches. As it deteriorates rapidly, it must be kept in a tight can. To spray, use one-fifth of an ounce (100 grains) in two gallons of hot water.

Tobacco Dust.—Sprinkle to drive away the striped beetle. Work it in the ground about plants infested with root-lice. In case of a tree, use one and one-half to two pounds.

WATER.—Take stems and make a decoction, using one pound to two gallons of hot water. Let it stand for several hours in a tight vessel. It can be greatly improved by adding one ounce of pyrethrum. Dilute to use with three to five parts of water.

LIME-SULPHUR WASH.—This is being recommended and used by horticulturists in place of bordeaux mixture for the treatment of plant diseases, such as apple scab, as well as for the San Jose scale, for which it was first used. Commercial limesulphur wash ready to use, except to dilute with water, accordsulphur wash ready to use, except to dilute with water, according to the directions, can be bought, and is much handier to use than home-boiled. A home-boiled concentrated solution can be made as follows: One pound lime, two and one-fourth pounds

use as follows: One pound time, two and one-fourth pounds sulphur, one gallon water.

Use an iron kettle, slake the lime in a little water, and add the sulphur when the lime begins to slake. Sift the sulphur in, and be sure there are no lumps. Boil hard for over an hour, or until the sulphur is dissolved; but it must boil for forty-five minutes, at least. Add water as necessary, and, when about

finished, dilute with water, preferably hot, to make one gallon. This should have a specific gravity of 1.30.

CARBOLIC SOAP.—Two pounds of soft soap; dilute this with rain-water to consistency of paint, and add once ounce of crude carbolic acid.

Formulas for Fungicides
COPPER SULPHATE.—For use on dormant trees. Dissolve three ounces in five gallons of water.

Ammoniacal Copper Carronate.—Dissolve five ounces of copper carbonate in three pints of ammonia (26° Beaumè); dilute for use with forty-five gallons of water. The stock solution will keep indefinitely if kept in a tightly corked bottle. This will not stain the plants, as will bordeaux mixture. Potassum Sulphung, or Liver of Sulphung.—Dissolve one-half ounce in one gallon of water. This loses strength with age; wir it free.

mix it fresh.

FORMALIN.-For potato scab, one pint to fifteen gallons of water.

CORROSIVE SUBLIMATE. - Potato scab, two ounces to two

gallons of water

gallons of water.

Bordeaux Mixture.—In five gallons of water, dissolve five ounces of copper sulphate by hanging in a bag in the top of the tub, and five and one-half ounces of good stone lime, and stir thoroughly. Strain into sprayer and add, when an insecticide is wanted, as well, three to six ounces of arsenate of lead.

IRON-SULPHATE.—For use on dormant plants only. Dissolve in these controls is the water of the proper of the p

in three quarts of hot water as much iron-sulphate as the water

will hold, then add one ounce sulphuric acid.

Directions for Determining Acid Soils

Add enough water to a half-cup of soil to make the consistency of thick cake batter, and insert blue litmus paper which may be obtained from a druggist, into it, without touching the part inserted, with the hands. If, when you rinse the inserted end, after an hour or so, it is very much reddened, the soil very likely needs liming. A pinkish color indicates a great deal of acid vegetable matter; brick-red, an absence of acid vegetable

Ammonia water is also used to determine the acidity of soil. Add a teaspoonful of ammonia water to a half-glass of water containing a tablespoonful of soil. If the mixture becomes brown or black after standing for some hours, acid vegetable matter

is probably present.

For most plants, lime is not required if the test shows only light acidity.

Formula for Grafting Wax

Place one part (by weight) of tallow, two parts of beeswax, and four parts of resin in a kettle. After it has become completely melted, pour into a tub of cold water, and work it with the hands until it becomes the color of molasses-candy; make into balls before putting away in a cool place. This preparation may be kept for years, and is excellent for both indoor or outdoor use. The hands should be greased before working the wax.

Directions for Applying Lime

Lime may be applied after plowing, and mixed in with the harrow, or in the fall, to be followed by the spring plowing. Soils with a great deal of acid vegetable matter may require from 5,000 to 6,000 pounds, but, on sandy soils, 500 pounds to the acre may be all that is needed.

HORSE POWER OF FALLING WATER
A gallon of falling water will develop as much power as a
falling block of iron weighing 62.5 pounds. Of course, the
greater the fall the greater the power developed. Water falling
one foot will develop a pressure of .43 pounds per square inch
of pipe. The same amount of water falling 100 feet will develop
a pressure of 43.31 pounds per square inch of pipe.
To compute the power of falling water it is necessary to
multiply the volume of flowing water in cubic feet per minute
by its weight, 62.5 pounds, and this product by the vertical
height of the fall in feet, and divide by 33,000, the number of
foot-pounds representing 1 h.p., for 1 minute.

BUILDING AND OTHER HINTS FOR THE FARMER BUILDING HINTS

HOW TO ESTIMATE MASON WORK

Brick—11½ barrels lime and ½ yard sand will lay 1,000 bricks. One man with one tender, will lay 1,800 to 2,000 bricks per

day. Rubble—1¼ barrels of lime and 1 yard of sand will lay 1,000

One man will lay 150 feet of stone per day with one tender.

A good mortar for heavy stone or brick work can be made from one part of slacked lime, two parts sand and one-third part of biacksmith's ashes.

HOW TO ESTIMATE CONSTRUCTION One thousand shingles, laid 4 inches to the weather, will cover 100 square feet of surface.

One-fifth more siding and flooring is needed than the number of square feet of surface to be covered because of the lap in the

siding and matching.

siding and matching.

One thousand laths will cover 70 yards of surface, and 11 pounds of lath nails will nail them on. Eight bushels of good lime, 16 bushels of sand, and one bushel of hair will make enough good mortar to plaster 100 square yards.

A cord of stone, 3 bushels of lime and a cubic yard of sand, will lay 100 cubic feet of wall.

Five courses of brick will lay one foot in height, on a chimney; 16 bricks in a course will make a flue 4 inches wide and 12 inches long, and eight bricks in a course will make a flue 8 inches wide and 16 inches long.

CEMENT REQUIRED FOR SURFACING
The following table gives the amount of cement and sand
required in several instances. Any area can be estimated by the

Bbls. of	Bbls. of	Thickness	Area cover
cement	sand	of coating	in sq. feet
1	1	1 inch	67
1	1 1 1	3/2 "	90
- i ' -	ここ 正 コンバ	3/4 ii	- 134
1	2	1 34	1104
í	2	3/4 40	139
1 0	2	3/2 "	200
1	3	. 1 "	140
1 1	3	3/4 66	187
1	3	· 32 "	280
	How To	MIX CONCRETE	

For ordinary work a very satisfactory concrete mixture is one part of Portland cement, two and one-half parts of clean sharp and, five parts of broken stone. In heavy foundation work, the quantity of cement can be considerably less. The important thing is, to have the sand and cement thoroughly mixed, and to only use clean sand—that is, sand that is free from any excess of clay, soil or rubbish of any kind. Use only as much water as necessary. It is not well to work concrete in freezing weather.

CEMENT PRODUCTION

During the thirteen years 1899-1911, the production of cement in the United States has shown an annual increase, and cement in the United States has shown an annual increase, and the growth of the Portland cement industry has been enormous. This is indicated by the fact that the 2,000,000-barrel increase in production in 1911 was the smallest that has been recorded within these thirteen years. The total production of Portland cement in the United States in 1911 was 78,528,637 barrels, valued at \$66,248,817. Although the increase over the production of 1910 was 1,978,686 barrels, or 2.58 per cent, the total value decreased \$1,956,983, or 2.87 per cent.

The average price per barrel in 1911 was a little over eighty-four cents, compared with 89 cents in 1910. The Portland cement plants reported in operation numbered 115, an increase of 9 over the number in the preceding year.

TURKEYS

It is a mistake to confine turkeys in small enclosures. By nature they are roving birds and get their feed over a wide

Turkeys should be raised with turkey hens because the young poults with chicken mothers will not range as widely as they

The young turkeys should be turned out in the fields just as soon as the dew is off the grass and should be allowed to remain out until dark.

If they are driven into the poultry house about dark and given a feed of grain or dry corn meal, wet and squeezed dry,

given a feed of grain or dry corn meal, wet and squeezed dry, they will, in a few days, return of their own accord.

Of course they must be brought in every night because if they are allowed to roost away from the poultry house they are likely to be destroyed by animals.

If the young turkeys can be induced to roost in a large tree near the poultry house they will do very well there because the tree is the natural roosting place for turkeys. An inclined board is placed against the tree so that the poults can get into it when they are quite young. Many of them continue to walk up the plank to the first branches even after they are fully grown while the others use their wings to reach the branches.

Young turkeys cannot thrive in damp quarters. They should be well ventilated and placed where they will get plenty of sunshine.

sunshine.

Young turkeys should never be hurried or driven home or quickly forced into the poultry house. They are deliberate in their movements and should take half an hour or more to find their roosting places and settle down for the night.

DEFINITION OF HORSE POWER
A Standard Engine Horse Power is 33,000 foot-pounds per
minute—that is 33,000 pounds raised one foot in one minute, or 3,300 pounds raised ten feet, or 330 pounds raised one hundred feet, and so on.

To calculate the horse power of an engine, multiply together the area of the steam piston in square inches, the piston speed in feet per minute and the mean effective pressure of the steam in pounds per square inch and divide the result by 33,000. This will give the horse power in the cylinder, or indicated horse power. From this must be taken the horse power consumed by the arrival in friction stee to obtain the arthur part hereacourte. the engine in friction, etc., to obtain the net horse power.

HOW TO MIX PAINTS FOR TINTS Red and Black makes......Brown Lake and White makes.....Rose

White and Brown makes
White, Blue and Lake makesPurple
Blue and Lead Color makesPearl
White and Carmine makesPink
Indigo and Lampblack makesSilver-Gray
White and Lampblack makesLead Color
Black and Venetian Red makes
White and Green makesBright Green
Purple and White makesFrench White
Light Green and Black makes
White and Green makesPea Green
White and Emerald Green makes
Red and Yellow makesOrange
White and Yellow makesStraw Color
White, Blue and Black makesPearl Gray
White, Lake and Vermilion makesFlesh Color
Umber, White and Venetian Red makes
White, Yellow and Venetian Red makesCream
Red, Blue, Black and Red makesOlive
Vellow. White and a little Venetian Red makesBuff

from which the oil had been extracted and found that both hand and machine sweepings produced as good results as stable manure, while the decomposed sweepings were not far behind. The department issues a bulletin warning farmers and gardeners that sweepings from which the oil has not been extracted will eventually impair the productiveness of soil, unless through drainage the oily material is drained off or changed.

STRENGTH OF ICE
Ice 2 inches thick will bear men on foot.
Ice 4 inches thick will bear men on horseback.
Ice 6 inches thick will bear cattle and teams with light loads.
Ice 8 inches thick will bear teams with heavy loads.

	SEED PLAN	TING IN THE	UNITED STAT	res
Kind of Crop	Date of Planting	Best Soil	Amount of Manure per Acre	Amount of Seed per Weeks to Ma-
Wheat	Fall or Spring	Clay loam	18 tons	.8 to 12 quarts 14-17 .2 bushels 20 2 to 3 bushels 11-15
Barley	April to June 20	Strong loam	7 to 8 tons	.2 to 3 bushels 10-15
White beans	May to June April 15 to May 1 July 1 to Aug. 3	Sandy loam	. 7 to 8 tons	1 to 1½ bushels
Mangels	April 15 to May 5 Seed bed April	Sandy loam	8 to 12 tons	.1 pound
CornWheat	April 20 to May 30	MIDDLE STAT	8 to 12 tons manure	.6 to 8 quarts 16-18 r.2 bushels 41-43
Oats	March to May	Moist clay loam	8 tons; 300 lbs. fertilize	r.2 to 2 ½ bushels 16–17 r.2 to 2 ½ bushels 13–16
White hears	May to Tune	Sandy loam	8 tone	r.1½ bushels
Sweet potatoes	May to June	Sandy loam	.300 to 600 lbs. fertilizer	10 to 12 bushels 10-15 4 to 8 ounces 8-15 2 to 5 pounds 10-12
Mangels	Mav	Loam	10 to 20 tons	.10 to 15 bushels
Hay, Timothy	August to October February to April	. Clay loam	• • • • • • • • • • • • • • • • • • • •	.6 to 8 quarts
CornWheat	April 1 to Tuno 1	TRAL AND WESTER Black or sandy loam. Strong loam.	E 4x 10 4xmm	6 quarts
Oats	April 1 to May 1 Fall or Spring (1) September 1 to 30	Clay Ioam	8 tons	2 bushels
				1 to 2 bushels
Flax	April 1 to May 15 March 15 to May 15	Loam	8 to 12 tons	
Hay	April to May	Clay loam	10 tons	Oz. to 6 sq. rods 15–18 .8 to 15 pounds
Cotton	February to May 15 February to June	Sandy loam (2)	103	.1 to 3 bushels 20–30 .8 quarts 18–20
OatsBarley	Sept. to Nov	Clayloam (2)	8 tons	2 bushels 43 2½ bushels 17 2½ bushels 17 1½ bushels 43
				1½ bushels
Sweet notatoes	May to Tune	Sandy loam	• • • • • • • • • • • • • • • • • • • •	10 40 12 hunhala
Pumpkins	April 1 to May 1 Ian. 1 to Feb. 19	Rich, light loam		4 to 7 pounds 17-20

Turings Feb., August, April Rich, Iight foam. 2 to 6 pounds
Tobacco Seed bed, March Sandy loam. 8 to 15 tons. Oz. to 6 sq. rods.

Cow peas. May 1 to July 15. Sandyl oam. 200 to 300 lbs. phos. 2 to 5 pecks...

QUANTITY OF SEED REQUIRED PER ROW AND ACRE

Asparagus.--21/2 ounces to 100 feet of drill; 2 pounds should

Asparagus.—2½ ounces to 100 feet of drill; 2 pounds should produce enough roots to plant an acre.

Beans, dwari.—1 quart to 100 feet of drill; 1½ bushels per acre. Lima, ½ bushel to an acre. Pole, 1 pint to 100 feet drill; ½ bushel per acre. Soup beans, ½ bushel to ¾ bushel per acre.

Beet.—1 ounce to 50 feet of drill; 4 pounds to an acre.

Buckwheat.—1 bushel to an acre.

Cabbage, 1 ounce to 300 feet of drill; hotbed or greenhouse, 1 ounce should produce at least 20,000 plants; outdoors, 1 pound should produce at least 20,000 plants.

Carrot.—1 ounce to 100 feet of drill; 2½ pounds to an acre.

Cauliflower.—1 ounce should produce 3,000 or more plants.

Celery.—½-ounce to 100 feet of drill; 1 ounce should produce at least 10,000 plants.

Sweet Corn.—½ to ½ pint to 100 hills; when planted in hills

Sweet Corn. - 1/4 to 1/4 pint to 100 hills; when planted in hills

peck to an acre.

Cucumbers.—1 to 2 ounces to 100 hills: 1 to 2 pounds to an

Egg Plant.—1 ounce should produce 1,500 to 2,000 plants. Endive.—¼ ounce to 100 feet of drill; 4½ pounds per acre. Kale.—1 ounce to 300 feet of drill, 4 pounds per acre. Kohl-rabi.—1 ounce to 300 feet of drill; 4 pounds per acre.

Melon, musk.—2 ounces to 100 hills; 4 x 4 feet, 2 pounds to an acre.

Onion, seed .- 1/2 ounce to 100 feet of drill; 4 to 5 pounds per acre. Sets, 1 quart to 40 feet of drill; 8 bushels, and more, if large, per acre.

Parsiey.—½ ounce to 100 feet of drill; 3 pounds to an acre.
Parsips.—6 pounds to an acre.
Peas.—1 to 2 pints to 100 feet of drill; 1½ to 2½ bushels

Pepper.-1 ounce should produce 1,500 plants.

Pumpkin, 5 pounds to an acre.
Radish.—1 ounce to 100 feet of drill; 10 to 12 pounds per acre. Rhubarb, 1 ounce of seed to 125 feet of drill; 31/2 pounds to

Rye.—1½ bushels to an acre. Salsify.—1 ounce of seed to 100 feet of drill; 8 pounds to an acre.

Spinach.—1 ounce to 100 feet of drill; 3-16 pounds to an acre; broadcast, 30 pounds to an acre.

Squash, summer.—4 ounces to 100 hills. Fall and winter,

8 ounces to 100 hills.

Tomato.-1 ounce of seed should produce 3,000 to 4,000 plants.

Leek.—1 ounce to 100 feet of drill; 4 p	oounds per acre.	Turnip.—1 ounce to 200 feet of drill; 1 to 2 pounds to an acre. Watercress.—3 pounds to an acre.			
	TH OF GERM LIFE		SEEDS		
VEGETABLES Years	VEGETABLES		VEGETABLES Years		
Cucumber 8 to 10	Mustard		Parsley 2 to 3		
Melon 8 to 10	Okra	3 to 4	Parsnip 2 to 3		
Pumpkin 8 to 10	Rhubarb	3 to 4	Pepper 2 to 3		
Squash 8 to 10	Spinach	3 to 4	Tomato		
Cauliflower	Turnip		Egg Plant 1 to 2		
Endive 5 to 6	Beans				
Pea 5 to 6	Carrots		Herbs Years		
Radish 4 tq 5	Celery		Anise 3 to 4		
Beets 3 to 4	Corn (on cob)	2 to 3	Caraway 2		
Cress 3 to 4	Leek	2 to 3	Summer Savory 1 to 2		
Lettuce 3 to .4	Onion,	2 to 3	Sage 2 to 3		
TIM	E REQUIRED FOR S	EEDS TO GERM	IINATE		
Best '		Best	Best		
Germ.		Germ	Germ		
VEGETABLES Temp. Days			VEGETABLES Temp. Days		
Bean 75 5 to 10	Corn		Pea 65 6 to 10		
Beet 60 7 to 10	Cucumber		Pepper 80 9 to 14		
Cabbage	Endive		Radish		
Carrot	Lettuce Onion		Turnip		
Cauliflower	Parsnip		Zump, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		
Celery 00 10 to 20	r arampi				
LENGTH	OF TIME TREES A	ND BUSHES W	ILL BEAR		
Years		Years	77		
Apple	Gooseberry		Plum 20 to 25		
Blackberry 6 to 14	Peach	8 to 12	Raspberry 6 to 12		
Currant	Pear	50 to 75	Strawberry 1 to 3		
USU	L DISTANCES FOR		TREES .		
No. feet		No. feet	No. feet		
each way	11.		each way		
Apple	Plum	16 to 20	Apricots 16 to 20		
	Peaches	16 to 25	Nectarines		
	Cherfies	10 to 23	Quintos: 1		
Pears, dwarf 10 to 15					
	TS REQUIRED PER	ACRE AT VAR	IOUS DISTANCES		
NUMBER OF PLAN	13 REQUIRED PER	10 in = 20 in - 11	616 3 ft. x 5 ft.— 2.904		

REQUIREMENTS OF VARIOUS PLANTS

P=Potash, Ph=Phosphoric acid and N=Nitrogen.

Crop	Seeding Methods	Soil Requirements	Tillage Requirements	Fertilizer Requirement
Alfalfa Artichokes Barley Broom Corn Buckwheat Beans (field) Clover, red " alsike " crimson.	Broadcast Hills 3 ft. wide Drill, broadcast 6 in. apart in row Drill, broadcast 4 in. apart in row Broadcast Broadcast Broadcast	Fertile loam Well-drained loam Fertile clay Rich loam Medium loam Dry clay loam Clay loam Moist loam Clay loam	Clip weeds Surface plowing After clover Frequent, shallow Frequent, shallow After grain With grasses Fine seedbed	P and Ph Manure Strong P Manure P and lime P and Ph Lime and P Lime and P Lime and P
Corn	Rows or hills,	Fertile loam	Frequent, shallow	N, P and Ph
CottonCowpeas	3½ ft. wide Rows 4 ft. wide Rows 30 in. wide or broadcast	Deep loam Loose loam	Surface plowing Light plowing	Ph and P and N Ph and P
Flax	Rows 30 in. wide	Rich deep loam		N, no manure
Grasses, orchard "blue" Hemp Hops Kair corn. Millet Oats. Peanuts. Potatoes Rape	or broadcast Broadcast Broadcast Hills 72' ft. 3 ft. in rows Broadcast Drill, broadcast Rows 3 ft. wide Rows 3 ft. wide Broadcast or rows 3 in. wide	Rich clay loam Limestone clays Loose loam Rich loam Rich loam Sandy loam Rich loam Sandy loam Rich loam Sandy loam Rich sandy loam	Light plowing Frequent, shallow Shallow Frequent, shallow	Manure Manure Manure Manure Manure Manure Manure P and Ph Rotted manure Manure
Rice. Rye. Sorghum. Soybeans. Sugar Beets. Sugar Cane. Tobacco. Vetch. Wheat.	Drill, broadcast Drill, broadcast Seed broadcast Rows 25-30 in. wide Rows 18 in. apart Rows 5-7 ft. wide Rows 3 ft. wide Broadcast Broadcast	Clay loam Dry loam Rich loam Light loam Sandy loam Rich loam Rich loam Sandy loam Rich loam	Shallow Shallow Frequent, shallow Shallow plowing Shallow plowing	N and Ph Manure Manure Manure or N, Ph and P P and Ph or Manure N and Ph N and P and Ph P and Ph P and Ph P and Ph

EFFECTS OF ELECTRICITY ON GROWTH

A long succession of ingenious experiments has recently been made in regard to the effect of electricity upon the growth of plants and animals, and it is now possible to say that startling results have been reached in one direction.

Beyond all question young poultry respond to electric stimulus applied in a particular way with astounding rapidity. They surpass the best on record in speed of growth. They keep their health in crowded conditions and become almost independent of season.

In the south of England, on the biggest poultry farm in the world, experiments of this nature have been carried on. Eight world, experiments of this nature have been carried on. Legit hundred chickens in two equal groups were nurtured on the intensive system—that is, in flats, almost trays, one above the other. One group of 400 was treated by the electric system, and so charged were the chickens with electricity that a shock could be distinctly felt if the finger were put to the beak of a

The chickens in this 400 grew to marketable size—that is, as "petits poussins"—in five weeks, and of the 400 only six, and those weaklings in the beginning died.

Of the other 400 nearly half died, it being late in the year for healthy growth, and the survivors took three months to reach marketable size.

EXPENDITURES FOR FERTILIZERS

The expenditures for fertilizers are a suggestive feature in the industry. It appears that the national outlay for that purpose in 1900 was \$53,000,000, and in 1910 it was \$114,000,-000. It also appears that in the outlay of 1910 more than one-half of the totals is charged to the South Atlantic account for use on cotton and tobacco. About 25 per cent was taken by the

North Atlantic States. The remainder, less than one-quarter of the entire quantity, was used on the farms that in their aggregate represent about 80 per cent. of the farm acreage of the country. The farmers of Illinois spent in 1910 only \$571,000 for fertilizers, while the farmers of New York State spent over \$7,000,000. The fertilizer bill of the two Dakotas amounted to only \$20,000 while Vermont paid \$570,000 and Alabama paid \$7,625,000.

MAKING A GOOD LAWN

Plow and prepare land in the fall or late summer thoroughly

Plow and prepare land in the fall or late summer thoroughly as for a garden, fertilizing with chemicals and rotted manure. Grade the lawn with a line before winter.

In the spring re-grade the surface, cultivating not to exceed 2 inches deep; add 500 pounds per acre of the following mixture: 300 pounds nitrate of soda, 400 pounds muriate potash, 1,300 pounds acid rock, worked into the soil with a hand rake.

Not earlier than June 1st, sow a mixture of equal parts by weight of white clover, blue grass and Rhode Island Bent grass, or Henderson's lawn mixture. Sow thickly. The ground should be colored with seed; cover with a hand rake and roll.

Keep out the weeds; cut frequently with a lawn mower but do not clip too closely. Fertilize with a complete chemical fertilizer in the spring, once in midsummer, and again in the fall. It is not necessary to top dress or mulch with stable manure. A lawn prepared in this manner will last indefinitely.

Over six million acres of land are under tobacco cultivation throughout the world.

The salt beds of Chili alone could supply the world with salt for ages to come, the mineral being found in large deposits 99 per cent. pure.

SPRAYING CALENDAR FOR FRUITS AND VEGETABLES

 	**************************************		SPRA	YING CAL	ENDAR	FOR F	RUITS	AND V	EGETABL	ES			115
FIFTH APPLICATION	Use ammoniacal copper carbonate in Sept., for scab if season is wet.	Spraying with bordeaux after pods are half grown will injure them for market.		Repeat after every rain when fruit begins to color.	Cut canes close if pests are bad.	Weak solution of copper sulphate.	Dig all trees that have crown galls.	Repeat once or twice until fruit is ripe.	10-20 days later ammoniacal copper carbonate.		Dig the worst diseased plants.	Clean up infected vines if remedies fail.	Dig early if rot is prevalent.
APP.	Eight to 10 days later, bordeaux and paris green.	14 days later, bordeaux.	After heads form, use saltpeter for worms, teaspoonful to I gallon water: emulsion for aphis.	10-14 days later, weak solution of copper sulphate, 3 oz. to 50 gals. water.	Use whale-oil soap for the San Jose scale if necessary.	2-4 weeks later, bordeaux.	Cut out leaf blight as fast as it appears.	As fruit shows color, potassium sulphide, 1 lb. to 50 gals, water.	8-12 days later, third.	Spray after fruit is gathered with bordeaux.	Repeat if weather is moist.	Keep the rotting fruit picked closely.	Spray with paris green for late bugs.
THIRD APPLICATION	When blossoms have fallen, bordeaux and paris green.	14 days later, bordeaux.	If plants are heading, use hellebore.	10-14 days if rot appears, bordeaux, Arsenate of lead for plum curculio.	Bordeaux for blight after fruit is picked.	When fruit has set, bordeaux and paris green.	For scale, burn or fumigate with hydrocyanic acid gas.	When fruit is set, weak bordeaux.	After blossoms have fallen, bordeaux and paris green. If necessary, kerosene emulsion or soap.	(Orange or red rust is treated best by destroying the plants attacked in its early stages.)	Spray new plantation bordeaux.	Repeat first when necessary.	Repeat for blight and rot at intervals of 2 or 3 weeks during summer.
SECOND APPLICATION	Just before blossoms open bordeaux and paris green.	10 days later, bordeaux.	Repeat the first application when necessary.	When fruit has set, bordeaux and arsenate of lead. If slugs appear, dust leaves with air-slaked lime or hel-bloom	eat with paris green necessary. Amno- copper carbonate for	Just before flowers unfold, bordeaux and paris green.	Repeat at intervals of 10- 14 days through the summer.	Just before blossoms open, weak bordeaux (2.4-50) and arsenate of lead for curculio.	Just before blossoms open, After blossoms hav bordeaux and paris green. Ien, bordeaux and Kerosene emulsion or whale- green. If necessary, oil soap when leaves open for sene emulsion or soap-paris.	leaux and paris green before the blossoms	When fruits are setting, bordeaux.	Repeat as soon as fruit is formed. Fruit can be wiped if disfigured by bordeaux.	Repeat before insects become too numerous.
FIRST APPLICATION	Spray before buds swell with copper sulphate.	When third leaf ex- pands, bordeaux.	When worms first ap- Repeat the first pear, kerosene emulsion or tion when necessary paris green.	As buds break, bordeaux: when aphis appear, kerosene emulsion.	Bordeaux before leaves start. At first appearance of worms, paris green.	In spring when buds swell, bordeaux.	When first leaves appear, bordeaux and paris green or arsenate of lead.	Before the buds swell, bordeaux.	As buds are swelling, bordeaux.	Before buds break, bordeaux.	As soon as growth begins, bordeaux. Dip plant in hordeaux before setting.		Spray with paris green and bordeaux when vines are small.
PLANT	(Forseab, codling moth, bud moth, tent caterpil- ar, canker worm, plum	BEAN (Anthracnose, leaf blight.)	CABBAGE AND CAU- LIFLOWER	CHERRY (Rot, aphis, slug, plum curculio, black knot.)	CURRANT (Worms, leaf blight.)	GRAPE (Fungous diseases, rose- bug, etc.)	NURSERY STOCK (Fungous diseases, San Jose scale.)	PEACH, NECTARINE, APRICOT	PEAR (Leaf blight, scab, psylla, codling moth, blister mite.)	RASPBERRY, BLACK-BERRY DEW-BERRY (Rust, anthracnosc, leaf blicht, saw fy.)	STRAWBERRY (Rust, leaf blight, mil-	TOMATO (Rot, blight, flea	POTATO (Beetles, blight and rot.)

INFORMATION FOR THE FARMER

TARIFF AND IMPORTS

The statistics for the first year under low duty and free trade show some surprises compared with earlier estimates. For example, imports of corn into the United States (chiefly from Argentina) were only 12 million bushels, or a "drop in the bucket" when placed beside our annual production of 3,000 millions in a full bumper year, and 2,500 millions in the crop of 1914-15. The year closed June 30, 1914, and the European War ensuing, upset all calculations as to the foreign movement during the

autumn and winter following.

The 1914 imports of eggs under free duty were 5,833,000 dozen worth a little over a million dollars, compared with

imports for the fiscal year 1913 of 1,367,000 dozen.

Imports of cattle and sheep showed a gain proportionately, but were insignificant considering domestic consumptive requirements. Butter imports jumped up heavily. For the requirements. Butter imports jumped up heavily. For the first time imports of fresh meats made an impressive showing. In the fiscal year ended June 30, under the duty free provision, foreign beef, largely from Argentina, came into this country to the extent of 180 million pounds, worth \$15,000,000; mutton 13 million pounds and pork nearly five millions. In our comparative table, figures are given (as per foot notes) covering the imports in the named year immediately following the going into effect of other Federal tariff laws.

Imports of Agricultural Products Under New Tariff Law								
(Fiscal yea	r ended June 30,	compared wi	th earlier year	s, in round th	ousands.)		
	1914	1913	1912	1911	1910 b	1909	1908	1898 c
Cattle, number	868	422	318	183	196	139	92	329
Sheep, number	- 223	15	23	. 53	126	103	225	392
Corn, bushels	12.367	903	53		-	258	20	3
Oats, bushels	22,284	724	2,622	107	1.034	6.667	364	, 9
Wheat, bushels	1.979	798	2,699	509	164	41	342	2,047
Wheat flour, barrels	1,377	108	159	142	145	92	. 40	3
Cotton, a		122	109	113	~ 86	86	71	53
				1.573	818	289	232	166
Eggs, dozens		1,367	973			409		100
Hay, tons		156	699.	337	97	N 000	10	0.276
Hops, pounds		8,494	2,991	8,557	3,200	7,387	8,493	2,376
Butter, pounds	7,842	1,162	1,026	1,008	1,360	646	780	32
Cheese, a	64	49	46	45	41	. 35	32	10
Cream, gallons	1,774	1,247	1,120	2,333	. 732	-		-
Milk, dollars	33	136	62	75	63	23	11	. 68
Sugar, a	5.067	4.740	4.105	3,938	4.095	4.189	3,372	2,690
Leaf tobaccó, a	60	67	53	46	47	42	32	10
Beans, bushels		1.048	1.004	1.037	1.015	3,355	1.657	164
Onions, bushels		789	1.436	1.515	1.024	574	1,275	489
Potatoes, bushels		327		219	353		404	1.171
			13,734			8,383		
Wool, a	38	195	193	138	264	266	126	133

cound millions of pounds The tariff dated August 5, 1909, went into effect instantly, hence fiscal year 1910 practically covers first year of operation under it.

Tariff act of July 24, 1897, passed and became the Dingley act, operative at once. Hence the imports fiscal year 1898 are a little short of 12 months.

SHIP EGGS BY PARCEL POST

Parcel post is of particular value to the man whose flock of hens is too small or who lives too far from express service to

hens is too small or who lives too far from express service to permit him to ship his eggs in the regular commercial case, which holds 30 dozen eggs, according to the Department of Agriculture after a five months test.

In the course of these experiments the department shipped 9,131 eggs in 466 lots. Of these, 327, or siightly less than 3.6% were broken, but only 209, or slightly less than 2.3%, were absolutely wasted. The others, though broken, could still be used. The percentage of breakage, moreover, will be greatly reduced, it is said, when the employees of the post office become more accustomed to handling such fragile matter.

That the eggs should be properly packed is of course essenting the same of the course essential course essential course of the course essential cou

That the eggs should be properly packed is, of course, essential. If possible only infertile eggs should be sent to market. Eggs should never be washed when intended for high-class trade, since the process removes a natural mucilaginous coating and opens the pores of the shell.

opens the proces of the shell.

After thorough elimination of the unfit, the eggs that remain should be carefully packed in a container of corrugated pasteboard, metal, wood, or other suitable material. The post-office regulations require this container to be so wrapped that nothing can escape from the package, and each egg to be wrapped separately in excelsior, cotton, or some such material. Any soft paper serves the purpose quite well.

The larger the shipments that the producer can arrange to make, the cheaper can he afford to sell his eggs. Within the first and second zones of the parcel post service, a package costs five cents for the first pound and only one cent for each additional pound. Ordinarily, eggs weigh about 1½ pounds a dozen, which, with the additional weight of the wrapping and container, would make a package of a dozen eggs weigh between two and three pounds. The postage on this would be seven cents. If another dozen eggs were included in the package, the postage would not be more than nine cents, or 4½ instead of seven cents a dozen eggs. cents a dozen eggs.

To the value of the eggs and the cost of postage must be added the cost of the container and the wrapping. For two dozen eggs this may be estimated at eight cents. With postage at nine cents it would therefore cost seventeen cents to market two dozen eggs, or 8½ cents a dozen. By shipping in 10-dozen lots, it is estimated that the marketing cost can be reduced to 4.7 cents a dozen

Where the container can be used more than once this cost can of course be somewhat reduced. Large sized containers will stand from two to four trips, smaller ones three to five, so that it will pay the producer to induce his customers to return the containers periodically. The postage required for this is of course deducted from the bill for the next shipment.

deducted from the bill for the next shipment. The chief drawback to marketing eggs by parcel post appears to be the time and trouble involved in packing them. This is compensated for by the extra price that can always be obtained for products that are absolutely reliable. At bottom, therefore, the shipper's success depends upon the care with which he safeguards the reputation of his products. Satisfied customers will soon build up his business for him.

DEVELOPMENT OF RURAL ORGANIZATIONS

Farmers have rapidly been tending toward organization during the last 40 years and their position in this respect is stronger, taking the country as a whole, than it has ever been before. The many attempts, both successful and otherwise, have all worked toward learning the needs and the possibilities of farmers' clubs

of larmers' clubs.

At present the States of the upper Mississippi valley are honey-combed with farmers' mutual insurance companies. According to T. N. Carver, director of the Federal Rural Organization Service, these have been more uniformly successful than any other type of farmers' organizations. In those States which publish official lists of these companies, there is a total of 1867 companies. These are located by States as shown in the table on the following page:

•	INFORMATION FO
Farmers' Mutual In	Nebraska
California 18	Neur Hammahina 66
Colorado 5	New Tercey 23
Arkansas 7 California 18 Colorado 5 Connecticut 14 Delaware 8 Georgia 7 Idaho 5 Illinois 230 Indiana 76 Iowa 176 Kansas 29 Kentucky 25 Maine 54 Maryland 17 Michigan 77 Minnesota 150 Montana 7	New York 163
Delaware 8	North Dakota 33
Georgia 7	Ohio 102
Idaho 5	Oklahoma 1
Innois 230	Oregon 3
Iowa 176	Phode Island
Kansas 20	South Carolina 10
Kentucky 25	South Dakota 33
Maine 54	Tennessee 17
Maryland 17	Texas 25
Michigan 77	Washington 6
Montane 7	West Virginia 11
and the same of th	Wisconsin 203
	Total 1,807
Farmers' Cooper	rative Creameries
Cooperative creameries have	taken an important place among
Small rural organizations. It h	as been declared by some that in
tion of this kind is to a great ext	tent cooperation. Any organiza-
managed with a view to giving	taken an important place among as been declared by some that in eal-cooperation. Any organizatent cooperative, however, if it is the farmer a better price for his the form of organization in which the of the history declaration.
butterfat or his grain. Under t	he form of organization in which
one vote is allowed for each shar	e of stock there is always danger
that the cooperative spirit will	be destroyed. Mr. Carver cites
as an example the case of a ma	an who owns a large number of
snares in a creamery but has ve	ry lew cows. He is likely to be
butterfat The number and le	ocation of farmers' cooperative
creameries in the United States	is shown in the following table:
Arkansas 1 Maryland	the form of organization in which the of stock there is always danger be destroyed. Mr. Carver cites an who owns a large number of rry few cows. He is likely to be han in paying a high price for ocation of farmers' cooperative its shown in the following table: 1 3 Oklahoma 10 usetts 8 Oregon 8 t 105 Pennsylvania 99 ts 105 Pennsylvania 99 ts 105 Pennsylvania 46 16 Tennessee 3 Pexas 19 ts 16 Tennessee 3 Texas 19 ts 14 Utah 6 3 Vermont 59 mpshire 6 Virginia 6 k 120 Washington 17 rolina 2 West Virginia 2 Teolina 2 West Virginia 3 Vermont 155 tkota 43 Wyoming 1
Arizona 1 Massacht	usetts 8 Oregon 8
California 36 Michigan	Pennsylvania 99
Colorado 14 Minnesot	a632 South Carolina 1
Connecticut 15 Mississip	pl 1 South Dakota _ 40
Georgia 2 Montana	O Terror 10
Idaho 3 Nebraska	14 Utah
Illinois 62 Nevada	3 Vermont 59
Indiana '67 New Han	npshire 6 Virginia 6
Iowa	k120 Washington 17
Kansas 7 North Ca	rolina 2 West Virginia 2
Maine 7 North De	kota 43 Wyoming 1
Maine 7 North Da	kota 43 Wyoming 1
_ "	Total2,165
Cooperative Cl	heese Factories
Along with the developmen growth of cooperative cheese Wisconsin is far in the lead. States is shown in the following	factories and in this respect
Wisconsin is far in the lead	The number of these in various
States is shown in the following	table:
California	Oregon2
California 3 Illinois 2 Indiana 1 Michigan 4 Minnesotts 15 Missouri 2	Pennsylvania
Indiana 1	South Dakota
Michigan 4	Utah
Minnesota	Vermont 1 Washington
Minnesota 2 Missouri 2 New York 34	Wisconsin247
Ohio	111000111111111111111111111111111111111
	Total 336
Cooperative Far Cooperative farmers' elevator increase in recent years in the have had their obstacles as have tions, yet at present they are in of these in various States is as Arkansas	mers' Elevators
Cooperative farmers' elevator	s have had a particularly large
increase in recent years in the	grain growing States. These
have had their obstacles as have	all other cooperative organiza-
tions, yet at present they are in	a strong position. The number
of these in various States is as t	OHOWS:
Arkansas	Nebraska 224
Idaha	Montana 25 Nebraska 224 North Dakota 320
Arkansas 2 Colorado 4 Idaho 4 Illinois 260	Ohio 23

Oklahoma

South Dakota

Visconsin ...

Washington-

------ 51

Total _____2,020

Indiana -Iowa _.

Kentucky

Michigan

Minnesota Missouri ...

There has been an exceedingly rapid growth of local associations for cow testing, for the ownership of pure bred sires, for purchasing fertilizers, seeds, feeding stuffs and general merchandise. To attempt to give a list of them would be out of the question since many of them have no official connection and are so local in character as to be almost unknown.

Must Unite Scattered Forces
Having studiously observed the development of these organizations, Mr. Carver outlines the things which appear to him as necessary for improving their future condition. In the first place, he says, it is of the utmost importance that these scattered movements be brought together and their work systematized. One of the functions of the Rural Organization Service, of which he is head, is to assist in bringing this about. When this is accomplished better conditions will be possible with respect to marketing farm products. Each farming community is a part of the world market, and the necessity for successful marketing on the one hand and successful purchasing on the other is a fundamental reason for the need of thorough rural organization. Problems of sanitation also require the cooperative effort of

Problems of sanitation also require the cooperative effort of many farmers, and as Mr. Carver describes it, it is as important for farmers to work together in exterminating certain disease germs as it was for our ancestors to exterminate the wolves and bears which preyed upon them and their flocks. Community organization can become the great factor in the elimination of

disease in the country.

disease in the country.

In organizing a rural community for any of the various purposes, it should be remembered that there is no magic about cooperation. Its chief function, in fact, is to assist farmers in improving their business methods. There must be as a basis of success, the idea of eliminating waste and replacing inefficiency with good management. One of the most frequent causes of failure, is the development of a spirit of spite or jealousy which grows until the organization is wrecked. Careful bookkeeping and thorough auditing must also be part of the system in a successful cooperative venture.

When marketing is to be the sim of an organization defisite.

successful cooperative venture.

When marketing is to be the aim of an organization, definite steps should be taken toward improving the quality of the product to be sold and standardizing it to conform with a specified type. One of the difficulties which has always prevented successful dealing directly between the producer and the consumer has been the necessity for grading and selecting of the product which must be done by someone. If producers will take it upon themselves to handle this work and put out a standard product of high quality, they can successfully deal directly with consumers. It is also to their advantage to adopt a trademark or brand which will enable the consumers to recognize their products on the market: The consumer will rapidly learn to recognize the trademark which has always been associated with first class goods and the confidence which will develop is a very definite asset.

One of the reasons cited for the fact that manufacturers often refuse to sell directly to farmers' organizations is that these organizations are sometimes unprepared to handle the proposition in a businesslike way. In that case, the manufacturer greatly prefers to deal through an agent who handles the work promptly and does not need to be shown how. The cure for such a situation is for those farmers who have business training to take the leadership, and not only strengthen their own organizations in this regard, but also help to eliminate irresponsible organizations from the field.

Credit Harmful if too Easy

Concerning the organization of various types of credit associations, Mr. Carver declares that probably as many farmers are suffering as much because of the fact that they have too much credit as they would were their credit opportunities too limited. To be able to borrow money, at no matter what rate of interest, is not a good thing for the borrower, if he invests it so that it does not repay the interest. One fact which has never been sufficiently emphasized concerning the credit organizations in other countries, is that they refuse credit as readily and as often as they give it. They refuse credit not only on the ground that the would-be borrower has no security to give, but also on the ground that it will not pay him to borrow. They will not permit him to borrow unless his investment is going to be a profitable one so that he will be able to pay back the loan. The directors of these coöperative banks discuss the purpose for which he wishes to borrow, and thus not only educate the members of the society, but protect him against himself.

GROWTH OF THE SILO PROPOSITION ON THE FARM

No census of the number of silos has ever been made, and no absolutely accurate information in regard to the number is available, but in view of the importance of the economic changes which are to follow the general use of silage in meat production, an investigation was recently made. Three counties were selected in each of the States of the great central valleys, so as to present as fairly as possible the different phases of the cattle to present as rainly as possible the different places of the catherindustry in each State, and in each county a count of the number of silos in each township was secured. The average result in the three counties, taking into consideration the known facts as to number and size of farms and number of dairy cows and of other cattle per farm, was applied to the whole State and a figure representing the probable number of silos in each State worked

Of course, no claim is made of complete accuracy, but the methods followed warrant the belief that the figures presented may be accepted as fairly typical of the present state of silo development. The total number of silos in operation on January 1, 1914, the number built during 1913, and the average tonnage capacity per silo, in each State covered by this investigation, are estimated as follows:

ESTIMATED NUMBER OF SILOS, JANUARY 1, 1914

Number Silos built ity, tons of silos in 1913 10.812 1,088 93 2,760 5,202 11,500 17,340 41,535 2,414 8,236 516 113

Ohio
Michigan
Indiana
Illinois
Wisconsin
Minnesota
Iowa
Missouri
Kansas
Nebraska
North Dakota
Oklahoma 6,726 6,510 2,679 900 250 1,300 455 Oklahoma 460

130,283

It will be noted that almost one-fourth of the total number of It will be noted that almost one-fourth of the total number of silos now in use were built during 1913, and in all probability at least one-half were built within the last two years. The number built in 1914 greatly added to these interesting totals. Of course, by far the greater number are as yet in the dairy regions, Wisconsin, northern Illinois, and Iowa easily leading in numbers; wisconsin hoteless him hick cattle feeding is most practiced are the ones that now show the largest percentage of annual increase. Central Indiana and Illinois, the north half of Missour, eastern Kansas and central Oklahoma are beef-producing districts that are marked by a rapid silo development during the past two

years.

The use of the silo in feeding beef cattle is responsible for an increase in the average size of the silo. The size of the silo depends upon several factors, the principal being the daily consumption of silage, as the top must be removed promptly and uniformly over the whole surface, and as the amount required daily for the average dairy herd is less than the amount required for a feed lot of steers, it follows that the use of silage in meat production has resulted in the erection in the last two years of silos of larger capacity.

Large Economic Importance

The economic importance of the present development of silage feeding would be hard to overestimate. About 70%, or roughly, 75,000,000 acres of our corn area used to produce corn to be fed upon the farm. Husking and gathering this corn not only constitutes one of the hardest manual tasks performed upon the farm, but is one of the largest items of cost in growing corn. An average acre of corn land produces perhaps one ton of cern on the cob and 11 tons of stalks, blades and husks when cured to a reasonable degree of dryness. a reasonable degree of dryness.

In the great corn belt of the West the ears are husked and then the kernels are shelled off, such separation involving great labor and expense. Then the 11 tons of feeding material is allowed to and expense. Then the 11 tons of recoming material is an owed to go to waste, an incumbrance in the field, except for a small part utilized in the pasturing of cattle for a few weeks at the close of the year. It follows that on 75,000,000 acres devoted to the growth of feed for farm animals by far the greater part of the

annual growth of feeding material is absolutely thrown away. The use of the silo will prevent this waste and make it possible to utilize in meat production 12 tons of feeding material per acre instead of the one ton now so utilized.

The silo furnishes a means of bridging the widening disparity between meat production and population, through a complete utilization of the feeding stuffs produced and the consequent ability to grow and fatten more cattle per acre of farm land than is possible under any other form of cattle feeding.

DETERMINING ACTUAL PROFITS IN ORCHARDING
In the Pacific Northwest and in Colorado, apple growing on a commercial scale is so systematized that orchardists can tell commercial scale is so systematized that orchardists can tell with some accuracy the outgo and the income in a given season. In the older, eastern, fruit States this knowledge is not so generally obtainable. Professor U. P. Hedrick of the New York Experiment Station, however, has recently published some very valuable reports on this subject, covering the work of several years' duration. He first of all selected a well conditioned orchard near Rochester, typical as could be found in the appiebelt of western New York as representing normal conditions. Here is an abstract of his report: "The trees are Baldwin apples, 27 years old at the beginning of the experiment, 37 now. Our accounts tell what each of the orchard operations has cost, the number of bushels of fruit produced and the selling price.

The first information we must have in getting at a problem is

number of bushels of fruit produced and the selling price.

The first information we must have in getting at a problem is the number of barrels of apples per acre a year. The exact number for the cultivated plat in this ten-year average is 116.8 barrels. Graded, the acre average for the period is 79.2 for barrels dstock, 37.6 barrels of evaporator and cider stock. Reducing these figures to the tree unit we have for barrel stock 2.93, for evaporatorstock 1.4. Total a tree, 4.33 barrels.

The proportion of evaporator and cider stock is seemingly high, made so by two autumn gales which in different seasons gave many windfalls. The first expense item is interest, \$25 an acre on investment, a sum which divided by 116.8, the number of barrels to the acre, gives us a charge of 21 cents a barrel as interest on investment; taxes over \$1.50 an acre on each barrel of apples 1.2 cents. Depreciation in teams and tools we must add 17 cents a barrel of apples.

Cost of Orchard Operations

Cost of Orchard Operations

Passing now to orchard Operations
of tillage an acre for the decade was \$7.39, making the amount to
be charged against each barrel of fruit 6.3 cents. The price
paid for team work at the beginning of the period was \$4 a day
of 10 hours, but the price advanced to \$5, a fair average being
\$4.50. Tillage includes the labor of putting in the cover crop,
but not the cost of the seed. For the cover crop seed, in this
orchard, usually red clover must be added, \$2.74 an acre for seed,
or 2.3 cents a barrel of apples. or 2.3 cents a barrel of apples.

orchard, usually red clover must be added, \$2.74 an acre for seed, or 2.3 cents a barrel of apples.

The expense of annual pruning an acre was \$3.56. As there are 27 trees to the acre in this orchard the cost was 13.1 cents a tree. The cost of apples was 3 cents a barrel. The average price paid for the work was \$2 a day of 10 hours.

The average cost an acre for spraying was \$11.28, a tree 41.8 cents, a barrel of apples 9.6 cents. The spraying was done the first few years with a hand sprayer, then for several years with a gas sprayer and the last three with a gasoline power outfit with two runs of hose. The first five years bordeaux and arsenate of lime were used, the last five lime-sulphur and arsenate of lead. The orchard was sprayed three times a season the first five of the ten seasons. The second five years it was sprayed but wice a season, the first application being the dormant spray, made just before buds began to swell, the second just as blossoms dropped. This treatment has given an almost perfect crop.

The last of the cost of production charges is that of superintending the work. The services of the average fruit grower are worth more than the \$2 a day allowed for actual work. This deficiency should be made up by a charge for superintending the work. The charge to be entered against a barrel of apples for superintending is 25 cents, against the acre unit \$30, against an apple tree \$1.10.

Picking, packing, sorting and hauling have been done in the season and the season and the item and the season and the seas

against an apple tree \$1.10.

Picking, packing, sorting and hauling have been done in diverse ways during the 10 years and the items cannot be segregated. But the total cost of these operations has been 24.4 cents a barrel. The apples, it should be said, were sorted and packed in the field. The crop was hauled to a station 1½ miles over a country road not better than the average.

The following is a summary of the cost sheet for a barrel of apples.

Cost of a Barrel of Apples

windfalls.

We are now ready to calculate profits and declare dividends: subtracting \$1.29, the cost of a barrel of apples, from \$2.60, the amount received, we have a net profit of \$1.31 a barrel for first and second grades. Multiplying by 79, the number of barrels an acre, we have \$103.49 as the profit an acre for first and second grades. Subtracting 67 cents from 93 cents we have 26 cents as grades. Subtracting 07 cents from 93 cents we have 26 cents as the difference between average cost of production and average selling price of culls. Multiplying 37.5, the number of barrels of culls an acre, by 26, we have a loss of \$9.75 an acre on the culls, leaving the average net profit an acre in this orchard for the past 10 years \$93.74, making a dividend on the investment of \$500 an acre of 1834%.

an acre of 18%%.

In closing I must make several general statements: First, we have not been skimming the pan in the Auchter orchard work. The milk left is as good as that taken. We shall expect this orchard, barring accidents, to do as well, or rather better, during the next twenty years than it has in the past ten. Secondly, as good or better dividends are coming from many New York apple orchards similarly situated and similarly cared for. The figures given are a fair average for a Baldwin orchard in its fourth decade. The cost of production is, if anything, high, since the State cannot do work as cheaply as an individual. The extra cost, if such there be, has been offset, however, by the skill and efficiency with which Mr. Auchter, in direct charge of the work, has managed every detail. Third, the profits of this orchard are probably many times greater than those from the average plantation in New York. Indeed, I suspect that if we had the financial history of every apple tree in New York we would find that the total cost of all quite equals the receipts from all—in other words, many are losing and few are winning. This is the history of financial endeavors in all industries."

CONTROLLING SWINE CHOLERA

CONTROLLING SWINE CHOLERA

The use of hog cholera serum seems to be the only seriously effective method of combating the disease. The serum must be prepared right in order to protect hogs. That goes without saying. Farmers must get their serum from the State college or from some commercial plant which has a Federal license. It is disastrous to attempt anything else.

All plants manufacturing serum for interstate shipment must secure a Federal license, after the plant has been carefully inspected by a representative of the Department of Agriculture. Unfortunately in a recent inspection a great many of these concerns could not pass. In fact, aside from the Federal plants, a number of those operated by the various states, and possibly a dozen commercial institutions, no other concerns have a Federal license. It has been recommended and the recommendation is a good one, that no serum is to be used except from a plant which has a proper Federal license.

Anti-hog cholera serum is used principally as a preventive. It may cure a large number of hogs at the early stages of the disease. It is of particular value, however, for hogs that are not visibly sick.

Then farmers should make careful preparation before beginned to the concerns have a residual properties.

Then farmers should make careful preparation before beginning the inoculation. Hogs that are sick should be separated from those that are well and marked so as to distinguish them.

Serum is administered by injecting it deeply under the skin with a hypodermic syringe. Before making the injection care must be taken to see that the syringes and needles are not only must be taken to see that the syringes and needles are not only absolutely clean, but that they have been previously boiled in water for 10 or 15 minutes. This kills all the germs and renders them absolutely sterile. It is a good idea to see that the needle and syringe are kept perfectly clean and do not become soiled during use. Lay them on a plank upon which a clean towel has previously been placed. Before using the serum, pour into some receptable with a cover, both the receptacle and cover having been sterilized by boiling in water. The glass should be allowed to cool before the serum is taken from it.

The serum is injected directly into the tissue on the inner side of the thigh, or still better, into the loose tissues between the fore legs and the body. The needle is injected into the skin perpendicularly to a depth of from ½ to 1 inch, depending upon the size of the hog. Before the injection is made, the skin of the hog over the part selected for injection should be thoroughly cleansed by washing with soap and water. Then the surface must be scrubbed with some reliable disinfectant.

The Dose Must Be Right

The Dose Must Be Right
Care should be used in estimating the weight of hogs, because
the amount of serum required depends upon the size of the hog
injected. The dose is commonly given on the package in which
the serum comes. Overestimate rather than underestimate and the serum comes. Overestimate rather than underestimate and thereby be sure of giving an ample dose of serum. After the injections are made the hogs must be turned into a clean yard, free from mud holes and infectious dust. They should be kept in this inclosure for several days after the injection, so that the wound will heal properly. During the time give them some easily digested food.

Among the precautions recommended for keeping the con-tagion from a herd are the following:

Do not locate hog lots near a public highway, railroad or a

Do not allow strangers or neighbors to enter your hog lot and do not go into your neighbor's hog lot. If absolutely necessary to pass from one hog lot to another, first clean your shoes carefully and then wash them with a solution of creosol.

Do not put new stock, either hogs or cattle, into a lot with a herd already on the farm. Place newly purchased hogs in separate inclosures, so that they are distinct from the herd already on the farm. Keep them under observation for three weeks. Then they can be put in with the other animals.

Hogs exhibited at fairs should be quarantined for at least three weeks after they return to the farm.

If hog cholera breaks out on a farm separate the sick from the apparently healthy animals. Burn all carcasses of dead animals on the day of their death. Do not leave them unburned, for this will endanger all other farmers in the neighborhood. The prevailing practice of rushing sick hogs to market must be discouraged. Treatment with the serum should be tried instead. If after observing all these precautions hog cholera appears on your farm, notify the State veterinarian or the State agricultural college, secure the serum treatment and go ahead.

CONSERVING PUBLIC HEALTH

GONSERVING PUBLIC HEALTH

Health law's and pure food regulations under the Federal Government are only partially understood by the public in spite of the enormous amount of matter printed bearing on these. Solicitor Francis G. Caffey of the United States Department of Agriculture has summarized in a helpful manner, many of the important features of the so-called Federal health laws. Following is an abstract of the summary of the regulations put into force the last seven years:

The regulations are designed with a two-fold purpose: To enforce honest labelling, and secondarily, to conserve health, The term "food" as used in the Pure Food and Drugs act, includes all articles used for food, drink, confectionery, or condiment by man or animals.

es all articles used for food, drink, confectionery, of condiment by man or animals.

The law against misbranding protects the public by letting it know just what it is buying. It deals with two classes of adul-terated foods: one class in which the adulteration is caused by improper labelling; the other class in which adulteration is in the articles themselves, and is incapable of being corrected by proper labelling.

The Department of Agriculture administers the act through

The Department of Agriculture administers the act through its Bureau of Chemistry, which collects samples and conducts investigations. When facts warrant prosecution or seizure, apparent violations of the law are reported to the Department of Justice by the Department of Agriculture.

AVERAGE COMPOSITION OF DIFFERENT VEGETA-BLES AND THEIR FERTILIZING VALUE

		Pounds		mate
	Pounds	of phos-		
		phoric	of pot-	
•	gen in			of one
		one ton		ton
	one ron		one for	LOIL
Asparagus	6.0	1.6	6.0	\$0.90
Beets	2 2	2.0	9.0	95
Cabbages		2.2	9.0	1 20
Carrots		2.0	10.0	80
Cauliflower		3.2	7.2	70
		4.4	15.0	1 25
Celery		2.4	4.8	65
Cucumbers		2.0	20.0	1 70
Horseradish roots			7.4	80
Lettuce		1.4		
Onions		2.5	3.5	65
Peas		6.0	8.5	2 90
Pumpkins	2.2	3.2	2.0	45
Rhubarb	2.6	0.4	7.2	55
Spinach		3.2	5.4	1 35
Sweet corn, cobs		1.0	4.4	65
Sweet corn, husks		1.4	4.4	60
Sweet corn, kernels		1.4	4.8	1 15
Sweet corn, stalks	5.6	2.8	8.2	1 00
Sweet potatoes	4.8	2.0	10.0	95
Tomatoes, fruit	3.2	1.0	5.4	60
Tomatoes vines	6.4	1.4	10.0	1 10

The above table shows in a very emphatic manner the great The above table snows in a very emphatic manner the great-need of nitrogen. It not only enters largely into the composi-tion of vegetables, but also influences the time of maturity. Vegetables which mature quickly usually command the highest prices and are generally the best in quality. Vegetables should grow rapidly and nitrogen has more to do with quick growth than either mineral element.

Preparing Fertilizer

It is a simple matter to determine the required amount of each material with which to make a fertilizer of a given formula. Suppose we desire to mix a fertilizer containing four per cent nitrogen, eight per cent phosphoric acid and ten per cent potash, and that we have on hand nitrate of soda, fourteen per cent rock phosphate and muriate of potash. Nitrate of soda contains about sixteen per cent ritrogen. Every 100 pounds of a ton of fertilizer, must contain four per cent or four pounds of nitrogen. It is seen at once that we must have four times twenty or eighty pounds of nitrogen to meet this formula and as each 100 pounds of nitrate of soda contains sixteen pounds of nitrogen we must have five times this quantity or 500 pounds of nitrate of soda. The formula calls for eight per cent of phosphoric acid, or eight times twenty or 160 pounds for a ton. Dividing 160 by fourteen, the per cent of available phosphoric acid in the phosphate used, we find that 1,143 pounds of phosphate are needed. Two hundred pounds of potash are required. Muriate of potash contains fifty per cent of actual potash so it will take 400 pounds of muriate of potash to supply this element. These amounts make a total of 2,043 pounds. If a low grade fertilizer is mixed from the ingredients named it would be necessary to use a filler as sand, dry earth or other foreign matter to make a full ton. It never pays the gardener to buy or mix low grade fertilizers. It is much better to use a smaller quantity of high grade material and thus save freight and labor in handling useless materials.

The operation of mixing is a very simple matter. The various materials to be used are weighed and placed in separate piles on a smooth floor at convenient distances from a sand screen with a quarter-inch mesh. This screen should be tacked on a frame three feet wide and five feet long and placed at an angle of about forty-five degrees. Two men with flat bottomed shovels throw the materials on to the upper part of the screen, taking alternately from the different piles. Some gardeners prefer to spread the materials in layers in one pile before shoveling. As shoveling proceeds, the lumps roll to the bottom of the screen and are crushed with the bottom of the shovels. From a practical standpoint this method is just as satisfactory as machine mixing in the factory and the actual cost of mixing and re-bagging need not exceed fifty cents per ton. It is not

desirable to mix more than a month in advance of field application or the fertilizer may get lumpy and cause trouble in drilling or distributing.

Fertilizer is most conveniently applied by means of drills. Some of the special drills or distributors may be adjusted to

Some of the special drills or distributors may be adjusted to scatter from a few hundred pounds to two tons per acre. Distribution by hand is not a very slow process and is preferred by some of the best growers in the country. Machine application, however, results in more even distribution.

Nitrate of soda also is extensively used as a top dressing after the crops are started. It is unquestionably of great value in furnishing nitrogen in quickly available form and its use is becoming more extensive every year. Amounts varying from seventy-five to two hundred pounds per acre are applied along the rows or about the plants and sometimes it is sown broadcast letting the crystals fall where they will. If the plants are dry there is seldom any injurious effect from burning the foliage. Nitrate is especially valuable when applied after drouth, and before rain. As soon as dissolved the nitrogen becomes available and plants thus treated often take on a darker, richer color able and plants thus treated often take on a darker, richer color within a day's time.

The liberal and continued use of acid fertilizers and green manures tends to make soils acid. Where there is marked acidity all of the garden crops fail to thrive. It is important, therefore, to keep the soil pure and sweet and this requires the use of lime.

lime.

It is wasteful to plow under so that plowing should precede the spreading of lime. It is also undesirable to mix lime with fertilizers. It is often cenvenient to apply lime to a fall crop so there will be no interference with the heavy application or fertilizers in the spring. When clover is grown in the rotation it is especially important to apply lime as often as may be needed. Lime is also the best known preventive of club root although it often fails to control this serious disease.

The lime requirement of different soils varies greatly. Half a ton of stone lime per acre is sufficient in some instances. Not less than a ton per acre should probably be applied on most truck farms. If the land is largely devoted to growing cabbage, cauliflower or other crops subject to the attack of club root it is desirable to use it much more freely. Growers on Long Island sometimes apply seventy-five bushels of stone lime per acre.

USEFUL BUGS AND REPTILES

Bees.—Useful pollenizers and almost indispensable to a continuance of a large percentage of plant life.

Dragon Flies.—Feed on a great variety of injurious insects.

Tree Crickets.—Feed on plant lice.

Ground Beetles.—In both larval and adult stages feed on uch insects as go underground to pupate.

Lady Bug Beetles.—Feed on plant lice and scale insects, both inlarval and adult stages.

Wasps.—Generally beneficial because predatory upon other insects which they use as food for their larvae.

Lace-Wing Flies.—Known as "Aphis Lions" in the larval stage when they feed on plant lice and many soft bodied leaf eating grubs,

eating grubs.

Hornets.—Feed almost entirely on insects.
Frogs and Toads.—Feed largely on insects and slugs.
Lizards.—Live on small bettles and other insects. Garden Spiders.-Feed on large flies, small moths, etc.

AVERAGE PERIODS OF INCUBATION Chickens. 20-22 days Gesse. 28-34 days Pheasants. Ducks. 28 days Ostriches. 40-Guinea fowls.... 28 days Pheasants.... 25 days Ostriches.....40-42 days Ducks.... Turkeys......27-29 days

AVERAGE PERIODS OF GESTATION The period of gestation in animals varies considerably, but

observations:	s an average	period based on a	long series of.
Elephant	2 years	Goat	5 months
Camel		Pig	3½ months
Ass		Dog	9 weeks
Mare			8 weeks
Cow	9 months		. 65 days

HOUSEHOLD HINTS

A hot shovel held over varnished furniture will take out white spots.

A little tea put in the starch used for brown linen pre-

serves its color.

Salt water is the best solution known for cleaning willowware and matting.

ware and matting.

If cheese is wrapped in a cloth moistened with vinegar it will neither dry out nor mold.

To remove stains and discolorations from tinware, try rubbing with a damp cloth dipped in soda.

A solution of potash and water rubbed on birch will give it a finish resembling rosewood when varnished.

The scum which is left by hard water may be removed from sinks, basins and tubs by kerosene or gasoline.

An application of lemon juice and salt in a good sun exposure is an old and effective remedy for fruit and rust

Wet shoes should be stuffed with paper, which will absorb the moisture and prevent the shoes from getting

hard.

To make crisp such foods as corn flakes or shredded wheat

To make crisp such foods as corn lakes or shredded wheat biscuit when the oven is not hot, heat an iron spider, remove it from the fire, put in the cereal and cover closely.

To prevent the possibility of getting hold of the wrong medicine bottle, especially in the dark, at night, glue a long narrow strip of sand paper on the side of all bottles containing poison. The sensation when handling the bottle will service you to the impending dares.

taining poison. The sensation when handling the bottle will arouse you to the impending danger.

In extracting the juice of lemon or orange, much more juice will be obtained if the fruit is first covered with cold water and allowed to come to a boil before the fruit is cut.

Electric bulbs can be easily mended if only one and sometimes two wires are broken. Attach the bulb to a drop light, turn on the electricity and place the bulb between you and the light. Then gently shake back and forth; the motion will cause the wires to meet and the current will weld the wires together. You will then have a light as good as new.

To prevent a dish from slipping when placed on the ice, put a rubber ring (such as comes on all ordinary fruit jars) underneath it.

neath it.

FOR CLEANING VARIOUS SUBSTANCES

ALABASTER.—Use strong soap and water.

BLACK CLOTH.—Mix one part of spirits of ammonia with three parts warm water, rub with sponge or dark cloth, clean with water, rub with the nap.

BLACK SLIK.—Brush and wipe it thoroughly, lay on table with the side intended to show, up; sponge with hot coffee strained through muslin; when partly dry, iron.

BLOOD STAINS.—To remove blood stains from linen put a drop of water on each stain and cover it with a layer of common laundry starch finely powdered. Then brush off the stack, and the stain will not be seen.

FRUIT SPOTS FROM COTTONS.—Apply cold soap, then touch the spot with a hair pencil or feather dipped in chlorate of soda, then dip immediately in cold water.

FURNITURE FROM FINGERMARKS.—Rub with a soft rag and sweet oil.

and sweet oil.

GRASS STAINS.—To remove grass stains from white goods, rub the spot with molasses, then wash in warm soap-

GREASE FROM SILK.—Take a lump of magnesia, rub it wet on the spot, let it dry, then brush the powder off.
GLOVES.—A quick way to clean gloves is to take a piece of soft cloth, rub it on the under side of some good Boap which has softened somewhat by laying on the dish, and then rub the gloves vigorously with this cloth. The gloves should be worn while being cleaned, and no

water should be used. This same method of cleaning can be water should be used. This same method of cleaning can be applied with good results to baby's white kid shoes, and, with a little water added, white canvas shoes can be thoroughly cleaned. The canvas shoes should be stuffed with paper or cotton so they will keep their shape while drying after being cleaned in this way.

Hands from Vegetable Stains.—Rub with a slice of

raw potato.

IRON RUST may be removed from white goods by sour

OIL MARKS ON WALL PAPER.—Apply paste of cold water and pipe clay, leave it on all night, brush off in the morning.

PAINT SPOTS FROM CLOTHING.—Saturate with equal parts

FAINT SPOTS FROM CLOTHING.—Saturate with equal parts turpentine and spirits of ammonia.

SCORCH STAINS FROM WHITE LINEN.—Lay in bright sun. STAINS, IRON RUST, OR INE FROM VELLUM OR PARCHMENT.—Moisten the spot with a solution of oxalic acid. Absorb same quickly by blotting paper or cloth.

VELVET.—Light colored velvet, corduroy or felt: rub the soiled portion lightly with the cut surface of a day-old loaf of white bread, cutting off the surface as fast as it becomes discolored. discolored.

WINDOW GLASS.—Paint can be removed by a strong solution of soda.

ZINC.—Rub with a piece of cotton cloth dipped in kerosene, afterwards with a dry cloth.

HELP IN CASE

Drowning. 1—Loosen clothing, if any. 2—Empty lungs of water by laying body on its stomach, and lifting it by the middle so that the head hangs down. Jerk the body a few times. 3—Pull tongue forward, using handkerchief, or pin with string if necessary. 4—Imitate motion of respiration by alternately compressing and expanding the lower ribs, about twenty times a minute. Alternately raising and lowering the arms from the sides up above the head will stimulate the action of the lungs. Let it be done gently but persistently. 5—Apply warmth and friction to extremities. 6—By holding tongue forward, closing the nostrils, and pressing the "Adam's apple" back (so as to close entrance to stomach), direct inflation may be tried. Take a deep breath and breathe it forcibly into the mouth of patient, compress the chest to expell the air, and repeat the operation. 7—DON'T GIVE UP! People have been saved after hours of patient, vigorous effort. 8—When breathing begins, get patient into a warm bed, give warm drinks, or spirits in teaspoonfuls, fresh air and quiet.

Burns and Scalds.—Cover with cooking soda and lay wet

Burns and Scalds.—Cover with cooking soda and lay wet cloths over it. Whites of eggs and olive oil. Olive oil or linseed oil, plain, or mixed with chalk or whiting. Sweet or olive oil

and lime water.

LIGHTNING.—Dash cold water over a person struck.

SUNSTROKE.—Loosen clothing. Get patient into shade and apply ice-cold water to head. Keep head in elevated position.

MAD DOG OR SNAKE BITE.—Tie cord tight above wound. Suck the wound and cauterize with caustic or white-hot iron at

OF ACCIDENTS

once, or cut out adjoining parts with a sharp knife. Give stimulants as whiskey, brandy, etc.
STINGS OF VENOMOUS INSECTS, ETC.—Apply weak ammonia,

stimulants as whiskey, brandy, etc.

STINGS OF VENOMOUS INSECTS, ETC.—Apply weak ammonia, oil, salt water or iodine.

FAINTING.—Place flat on back, allow fresh air and sprinkle with water. Place head lower than rest of body.

CINDESS IN THE EYE.—Roll soft paper up like a lamplighter, and wet the tip to remove, or use a medicine dropper to draw it out. Rub the other eye.

FIRE IN ONE'S CLOTHING.—DON'T RUN—especially not down stairs or out-of-doors. Roll on carpet, or wrap in woolen rug or blanket. Keep the head down, so as not to inhale flame.

FIRE FROM KEROSENE.—DON'T USE WATER, it will spread the flames. Dirt, sand, or flour is the best extinguisher, or smother with woolen rug, table-cloth or carpet.

SUFFOCATION FROM INHALING ILLUMINATING GAS.—Get into the fresh air as soon as possible and lie down. Keep warm. Take 20 drops aromatic spirits of ammonia in a tumbler of water, at frequent intervals; also two to four drops tincture aux vomica every hour or two for five or six hours.

TESTS OF DEATH.—Hold mirror to mouth. If living, moisture will gather. Push pin into flesh. If dead, the hole will remain, if alive it will close up. Place fingers in front of a strong light. If alive, they will appear red; if dead, black or dark. If a person is dead decomposition is almost sure to set in after 72 hours have elapsed. If it does not then there is room for investigation by the physician. Do not permit burial of dead until some certain indication of death is apparent.

UP-TO-DATE METHODS IN CANNING

The old way of making jelly was a pint to a pound, cooked for 20 minutes at a time, with laborious skimming. The same old-time method of preserving and canning meant peeling apples and peaches by hand, pitting cherries with the thumb and first finger unmindful of time and stain. There is a better way than the old-time way which so many

There is a better way than the old-time way which so many housekeepers dreaded.

To make delicious currant jelly, heat the currants very hot with a little water to keep them from burning. Press hot with a little water to keep them from burning. Press through a colander, then through a vegetable press. Put as many pints of juice in your kettle as the kettle will hold. Boil steadily for 20 minutes, skimming when necessary. Allow one pound of sugar to each pint of juice. Put the sugar in iron pans on top of brown paper in a hot oven until piping hot. If it seems to burn, put paper on top. Keep the door of the oven closed. The sugar must be so hot that it does not stop the boiling of the juice when it is added at the end of 20 minutes. Let the sirup froth up just

once after dissolving.

In jarring or preserving fruit, the flavor is best preserved by boiling water around the jars of fruit rather than boiling the fruit itself. Here is an excellent method of cooking fruit in jars. You need a good size wash boiler to hold eight quart jars and eight tin holders. If you cannot buy these tin holders your tinner will make them. If you have no holders, put clean shingles in the bottom of the boiler on which to stand the jars. Select the fruit carefully, and pick it over to see that there are no spotted bits included. It should be prepared as for ordinary canning, but instead of being put in a kettle, put directly into a quart jar. Shake down once or twice to pack it solidly as the fruit shrinks considerable after boiling. The table below gives the required amount of sugar. Have plenty of boiling water on the stove. Put the sugar in a small pitcher or pint measure and cover with boiling water. Do not use too much water at first. Pour the sirup over the fruit and add enough water to fill the jars. Put on the rubber and screw the coyers In jarring or preserving fruit, the flavor is best preserved to fill the jars. Put on the rubber and screw the covers loosely. Put each jar in a stand and set the eight at once in a wash boiler filled to within an inch of the covers of the

jars with lukewarm water. After the water comes to the boiling point, cook the length of time required as shown by the table. Remove from the fire and unscrew covers for a few minutes to allow the steam to escape. Rescrew tightly and turn each jar upside down on the table to see that they are entirely air-tight.

that they are entirely air-tight.

In canning tomatoes, no water is used, merely a teaspoonful of salt to each jar Pick the tomatoes early in the season whey they are not watery. Boiling water should be poured over them to make them skin easily. Fill jars very full. Wrap each jar in newspaper and keep in a dark, cool place.

—I. H. C. Almanac.

TIME FOR BOILING FRUITS

Fruits	Time for Boiling	Amount of Sugar to Quart
Cherries (sweet)	5 min. 5 min.	6 ounces
Cherries (sour)	6 min.	6 ounces
Blackberries	8 min. 8 min.	8 ounces
StrawberriesPlums	10 min.	8 ounces
Green gages	10 min.	8 ounces
Huckleberries	5 min.	4 ounces 8 ounces
Bartlett pears (halved)	20 min.	- 6 ounces
Peaches (halved or whole) Pineapple (sliced)	8 min. 15 min.	8 ounces
Crab apple	25 min.	8 ounces
Sour apples (quartered) Currants	10 min. 6 min.	8 ounces
Wild grapes	10 min.	8 ounces
GooseberriesQuinces (sliced)	8 min. 35 min.	8 ounces
Tomatoes	45 min.	Teaspoonful
	·	of salt.

COOKING TIME TABLE

FOR BAKING	For Boiling
MEATS Time in oven	MEATS
Mutton, leg, per lb	Mutton, per lb
Beef ribs, per lb 8 to 15 min.	Ham, per lb
Round of beef, per lb	Chicken, per lb
Lamb, well done, per lb	Turkey, per lb. 15 min. Corned beef, per lb. 30 min.
Pork, well done, per lb	Corned beef, per lb
	Fowl, per lb
Mutton, shoulder, stuffed, per lb	Tripe, per lb
Venison, rare, per lb	Fism
Goose, per lb	Halibut, per lb
Chicken, per lb	Bluefish, per lb
Turkey	Bass, per lb
Birds, small (hot oven)	Codfish, per lb 6 min.
Ducks, wild (very hot oven)	Haddock, per lb. 6 min.
Ducks, tame	Salmon, per lb
•	Small fish, per lb 6 min.
Fish	Lobster30 to 40 min.
Shad	
Trout	VEGETABLES
Bluefish	Peas
Small fish	Spinach
MISCELLANEOUS	Lima beans
Bread	String beans
Custard (very slow oven)	Potatoes
Calcas 20 min.	Asparagus
FOR BROILING	Brussels sprouts
FOR BROILING MEATS	Green corn
	Onions30 to 40 min.
Crowse 45 min.	Parsnips. 30 to 40 min. Rice 15 to 20 min.
Quail 8 to 10 min.	Rice
Stank 1 1/2 inches thick 10 to 15 min	Turnips
Steak, 1 inch thick	Cauliflower 20 min.
Spring chicken 20 min.	Cabbage 20 min.
Squab10 to 15 min.	Cabbage
Edward 10 10 10 10 10 10 10 10 10 10 10 10 10	Discolution 20 min.

	DIGESTION OF	VARIOUS FOODS	
FRUITS H. M.	H. M.	н. м.	
Apples	Periwinkles 3 30	Mutton, roasted3 15	Turnips 4 0
Bananas1 45	Sardines 3 10	Pork, boiled4 15	Turnings
Blackberries	Salmon4 0	roasted5 20	Turnip tops 3 0
Cherries 2 0	Shrimps 3 45	Yeal4 0	Watercress 1 30
Currants3 30	Soles	Venison	Miscellaneous
Figs and Grapes3 0	Sprats3 0	V спізоц 30	Bacon and Ham4 0
Fig SeedsNever	Turbot 2 20	Vacanta	Bread, new4 30
Gooseberries 2 30	Whelks	VEGETABLES	" stale 3 30
Melons3 0	Whiting3 0	Asparagus	Butter 3 0
Nuts4 0	Whiting	Beans	Cheese 3 30
Oranges	Torus	" French2 0	Crust (Pie) 3 45
Pears, ripe	FowL	Brussels Sprouts1 45	Eggs, boiled lightly3 0 hard4 30
	Duck 4 0	Cabbage4 30	" " hard4 30
Pineapple	Fowls, boiled3 0	Carrots4 15	poached3 5
Plums 3 40	" roasted3 30	Cauliflower	" fried 3 15
Prunes 2 0	Goose	Celery, uncooked3 15	13 W 2 U
Raisins4 5	Partridges 2 25	Cucumber 4 45	Jams and Jellies3 0
Raspberries 3 45	Pigeons 3 10	Endive	Macaroni 3 0
Strawberries 2 45	Pheasants	Horseradish4 0	Milk, raw
	Turkey4 25	Leeks 1 30	46 boiled 2 0
Fish		Lettuce 3 0	" Swiss cond2 0
Brill 3 20	Meat	Mushrooms	Oatmeal 3 5
Cod Fish	Beef, boiled & salted 4 15	Mustard and Cress2 0	Pearl Barley 2 0
Crabs4 0	Beef, roasted 3 20	Onions	Pepper 3 45
Haddocks4 0	Calves' Head 3 0	Parsnips 3 30	Pickles4 0
Herrings 3 5	" Feet, boiled2 0	Peas, Green	Sausages heef 2 5
Lobsters 4 0	Hearts4 0	Potatoes, boiled 3 30	Sausages, beef3 5 pork4 0
Mackerel4 0	Kidneys 3 0	Radishes4 0	Suet
Mussels	Lamb 2 20	Rice, boiled 1 30	Tea 4 0
Oysters, raw	Liver	Savoys	Tongue
" stewed2 15	Mutton, boiled3 0	Tomatoes	Vinegas 2 15
500,000,		хошасосы	Vinegar 3 25
	ODICINI OR COMMISSION TO		

ORIGIN OF COMMON VEGETABLES AND FRUITS Spinach is a Persian plant Horseradish is a native of England. Filberts originally came from Greece.
The Turnip originally came from Rome. The Peach originally came from Persia.

Sage is a native of the South of Europe
Sweet Marjoram is a native of Portugal.

The Bean is said to be a native of Egypt.

The Pea is a native of the south of Europe Ginger is a native of the East and West Indies.
Coriander Seed came originally from the East.
Apricots are indigenous to the Plains of America The Cucumber was originally a tropical vegetable.

Capers originally grew wild in Greece and Northern Africa.

Pears were originally brought from the East by the Romans.

The Clove is a native of the Malacca Islands.

Cherries were known in Asia as far back as the 17th century.

POISONS AND THEIR ANTIDOTES

Acms: Muriatic, Oxalic, Acetic, Sulphuric, (Oil of that are more or less effective are baking soda and dry Vitriol), Nitric (Aqua Fortis)—Soap suds, magnesia, lime-starch.

ALKALIES: Potash, Lye, Hartshorn, Ammonia—Vine-gar or lemon juice in water. ARSENIC, Verdigris, Rat Poison, Paris Green—Milk, raw eggs, sweet oil, lime-water, flour and water. CARBONATE OF SODA, Copperas, Cobalt—Soap suds and

mucilaginous drinks.

CARBOLIC ACID—Flour and water, mucilaginous drinks.

Buc Poison, Lead, Saltpetre, Corrosive Sublimate,
Sugar of Lead, Blue Vitriol—Whites of eggs or milk in large doses.

large doses.

Chloroform, Chloral, Ether—Dash cold water on head and chest. Artificial respiration.

Hemlock, Laurel, Aconite, Belladonna, and Foxglove—After emetic give tannin and stimulants.

Iodiny, Antimony, Tartar Emetic—Starch and water, astringent infusions, strong tea.

Mercury and its salts—Whites of eggs, milk, mucilages.

Optum, Morphine, Laudanum, Soothing Powders or Syrups, Paregoric—Strong coffee, hot bath. Keep awake and moving at any cost.

Poison Ivy or Oak—There are three generally effective remedies for poison ivy or mercury. One is to apply hot water to the poisoned surface. Another is peroxide of hydrogen. The third is to apply a solution of sugar of lead, about 40 grains to a pound of water. Two other remedies

Asparagus was originally a wild sea coast plant and is a native of Great Britain.

The Tomato is a native of South America and it takes its name from a Portuguese word.

Portuguese word.

Parsley is said to have come from Egypt, and mythology tells us that it was used to adorn the head of Hercules.

Apples were originally brought from the East by the Romans.

The Crab-apple is indigenous to Great Britain.

The Onion was almost an object of worship with the Egyptians 2,000 years before the Christian era. It first came from

The Cantaloupe is a native of America and is so called from the name of a place near Rome where it was first cultivated in

Europe.

Lemons were used by the Romans to keep moths from their garments, and in the time of Pliny they were considered an excellent poison. They are native to Asia.

PRUSSIC ACID—Ammonia in water. Dash water in face.
STRYCHNINE—First give an emetic, and then large dose
of bromide of sodium (60 grains in solution). Repeat every

bour until three or four doses have been taken.

Toapsrool Poisoning—Give emetics promptly, then castor oil and stimulants. Apply heat.

SUN SPOTS

SUN SPOTS

To be visible with a telescope a sun spot must be at least 25,000 miles in diameter, and probably represents a more or less circular opening in the luminous clouds surrounding the sun itself not less than 300,000,000 square miles in area. Inside this temporary crater is a tremendous sea of liquid fire, the molten waves of which are hundreds of miles in height. Father Secchi, an Italian astronomer, who devoted himself to the observation of the sun, carefully measured many of the waves generated during a "spot disturbance," and found some of them attained the incredible height of over 100,000 miles, and the rate of their movement he estimated at 150 miles a second! The mightiest terrestial volcanic disturbance is as nothing to these solar eruptions, which often last—vast seething whirlpools of fire—for several weeks before the area affected resumes its normal appearance. Sun spots are most abundant at intervals of about eleven years. They usually lie along zones not far N. and S. of the Equator, and transit the solar disc in about 13½ days.

MEDICINAL HERBS

(Abstracted from U.S. Bulletin No. 219)

Tonic and astringent properties; domestic remedies in diarrheal complaints.

LIVERLEAF.—Also known as the hepatica. Grows in the woods, blossoming about March. The leaves have tonic properties. Said to be useful in affections of the liver.

Celandine.—Unpleasant acrid odor when bruised. The dry leaf is odorless; cathartic and diuretic properties. Promotes perspiration; used as an expectorant; juice has been employed externally for warts and come. externally for warts and corns.

WITCH ADEL.—Blooms late in Fall. Leaves are from 3 to 5 inches long. Soothing properties; employed for use of in-

fammatory conditions.

AMERICAN SENNA.—Perennial herb; its round grooved stems reaching about 5 feet. The leaves are 6 to 8 inches long and have from 12 to 20 leaflets. Cathartic properties similar to

the well-known senna of commerce imported.

EVENING PRIMEOSE.—Grows in nearly all parts of the country; blooms at night; has mucilaginous taste; used for coughs and asthmatic troubles and an ointment made therefrom applied in skin affections. Entire plant used.

YERBA SANTA.—Expectorant properties employed for throat and bronchial troubles. Also used as a bitter tonic. Has a

and pronounal troubles. Also used as a bitter tonic. Has a balsamic and sweetish taste.

PIPSISSEWA.—Bitter astringent taste; employed in rheumatic and kidney affections slightly tonic; externally applied to ulcers. Mountain Laurel.—Found in rocky and sandy soil in Northeastern states. Used for its astringent properties; poisonous

castern states. Used for its astringent properties; poisonous to sheep and calves.

Gravel Plant or Trailing Arbutus.—Spicy fragrance; leaves measure from one to three inches in length, possess astringent and diuretic properties; collected when in flower.

Winter Green.—Perennial plant; frequents sandy soil in cool

WINTER GREEN.—Perennial plant; frequents, sandy soil in cool damp woods; stimulant antiseptic, and diuretic properties; chief use as flavoring extract.

BEARBERRY.—Low, much-branched shrub growing in sandy or rocky soil from Middle Atlantic States to Labrador. Leaves about one inch in length. Collected in Autumn. Act on the kidney and liver and have astringent and tonic effects.

BUCK BEAN.—A marsh herb growing as far south as Pennsylvania; employed in dyspepsia, fevers, rheumatic and skin affections, also as a remedy against worms. Large doses sometimes have an emetic action.

SKULL CAP.—Principally used as a tonic and to a limited extent

Sometimes have an emetic action.

SKULL CAP.—Principally used as a tonic and to a limited extent for allaying nervous irritation of various kinds.

HOREHOURD.—Grows in sandy or stony soil; a domestic remedy for colds; also used in dyspepsia and for expelling worms. Leaves and tops are only parts of the plant used.

CATNIP.—A perennial growing in dry soil 2 or 3 feet in height. Catnip. tea is, a mild stimulant and tonic and acts as an emmenagogue. It also has a quieting effect on the nervous system. Does not grow south of North Carolina.

SWEET FERN.—Has fragrant odor and resembles ordinary fern. MOTHERWORT.—A stimulant, slightly tonic properties used also to promote perspiration.

PENNYROYAL.—Strong mintlike odor and pungent taste; used as an aromatic stimulant, carminative and emmenagogue. Odor repulsive to insects and is much used to ward off mosquitoes. Belongs to the mint family.

BUGLEWEED.—Bitter, disagreeable taste; it has sedative, tonic and astringent properties. Grows in damp places in eastern United States. Cultivated in New York and Michigan.

Peppermint.—Well-known remedy for stomach and intestinal

troubles. SPEARMINT.-Plant much resembles peppermint. Uses similar

to peppermint, although action is milder. The oil is obtained from the fresh or partly dried leaves and the flowering tops.

Jusson Weed.—Has narcotic odor and nauseous taste; poisonous, antispasmodic, anodyne and diuretic properties. In asthma employed in form of cigarettes, the fumes being inhaled.

BALMONY .- Bitter taste, no odor, used as a tonic for its cathartic

properties and for expelling worms,
COMMON SPEEDWELL.—Bitter taste; used in asthmatic troubles,
also for its alterative and diuretic properties.

also for its alterative and diuretic properties.

FOXGLOVE.—Peculiar odor, nauseous taste; preparations made
from it are of great value in affections of the heart but are
poisonous and only used on advice of physician.
SQUAW VINE.—Tonic, astringent and diuretic qualities.
LOBELIA.—Poisonous; has expectorant properties, acts upon
nervous system and bowels, causes vomiting.
BONESET.—Popular remedy in fever or ague; employed in colds,
dyspepsia and jaundice; in large doses acts as an emetic and
cathartic.

cathartic.

cathartic.

GUM PLANT.—Odor is balsamic, taste resinous and sharply aromatic; used as stomachic tonic and externally in cases of poison ivy poisoning.

CANADA FLEABANE.—His faint, agreeable odor, astringent taste; used for controlling hemorrhages and bleeding of wounds; also employed in dropsy and diarrhea.

VARROW.—Aromatic odor much like chamomile, sharp bitter taste; used as a stimulant tonic, for its action upon the bladder and for checking excessive discharges.

TANSY.—Poisonous and sometimes produces fatal results; used as a stimulant tonic and emmenagogue, also as a remedy for

as a stimulant tonic and emmenagogue, also as a remedy for worms.

WORMWOOD.—Exceedingly bitter taste; used as a tonic, stomachic, stimulant against fevers and for expelling worms. By distillation an oil is obtained which is the principal ingredient of absinthe.

gredient of absinthe.

Collsysor.—Popular remedy in coughs and affections of chest, having a soothing effect on irritated mucous membranes.

Fireweed.—Oil by distillation is used as astringent tonic and for its alterative properties; disagreeable taste and odor.

BLESSED TRISTLE.—Taste very bitter and salty and somewhat acrid; used principally as a bitter tonic.

MEANING OF COMMON FLOWERS

Amaryllis, splendid beauty.
Apple Blossom, preference.
Azalea, romance.
Bachelor's Button, hope in love.
Balm, sympathy.
Balsam, impatience.
Bell-flower, gratitude.
Box, constancy.
Buttercup, riches.
Calla Lily, feminine beauty.
Candy Tuft, indifference.
Canterbury Bell, gratitude.
Cape Jessamine, ecstacy.
Carnation, yellow, disdain.
China Aster, will think of it.
Dandelion, coquetry.
Eder Flower, compassion.
Everlasting, remembering.
Forget-me-not, true love.
Forgetowe, insincerity.
Four o'Clocks, humility.
Four o'Clocks, humility.
Geranium, joy, next dance.
Geranium, joy, next dance.
Geranium, silver, recall.
Golden Rod, encouragement.
Harebell, grief.
Hawthorne, hope. Cape Jessamine, ecstacy. Carnation, yellow, disdain. China Aster, will think of it. China Pink, aversion. Chrysanthemum, rose, I love. Chrysanthemum, rose, I love. Clematis, artifice.
Clover, red, industry.
Cockscomb, foppery.
Columbine, folly.
Coriander, hidden merit.
Cowslip, you're my divinity.
Crocus, cheerfulness.
Daffodil, chivalry.

Harebell, grief.
Hawthorne, hope.
Heliotrope, I love you.
Holly, foresight.
Hollyhock, ambition.
Honeysuckle, bond of love.
Horsechestnut, luxury.
Hyacinth, jealousy.
Hyacinth, blue, constancy.
Hydrangea, heartlessness.
Iris, message.

Ivy, matrimony.
Jonquil, return my love.
Lady's Slipper, beauty.
Larkspur, fickleness.
Lauven, glory.
Lavender distrust.
Lilac, first emotion of love.
Lily, purity, modesty.
Lily of the Valley, happiness.
Lily, water, eloquence.
Lily, water, under happiness.
Lily, water, eloquence.
Lily, water, eloquence.
Lily, water, eloquence.
Lily, water, eloquence.
Magnolia, peerless, rude.
Margiorum, blushes.
Meadow Sweet, uselessness.
Meadow Sweet, uselessness.
Mignonette, qualities.
Moss, maternal love.
Motherwort, secret love.
Myrtle, love.
Narcissus, egotism.
Orange Blussom marriage. Ivy, matrimony. Myrite, 1070; Marcissus, egotism.' Orange Blossom, marriage. Primrose, early youth. Rose, bridal, happy love.

Rose, moss, superior merit.
Rose, sweet briar, sympathy.
Rose, tea, always lovely.
Rose, white, worthy of you.
Rose, wild, simplicity.
Rosebud, young girl.
Rue, disdain.
Snapdragon, presumption.
Snowball, thoughts of heaven.
Snowdrap consolistics Snowdrop, consolation. Spearmint, warm feeling. Star of Bethlehem, reconciliation. Sunflower, pride. Sweet-William, finesse. Sweet-William, finesse.
Syringa, memory.
Thistle, austerity.
Trumpet flower, separation.
Tuberose, dangerous pleasure.
Tulip Tree, rural happiness.
Tulip Tree, rural happiness.
Tulip, yellow, hopeless love.
Verbena, sensibility.
Violet, blue, love.
Violet, white, modesty.
Zinnia, absent friends.

Zinnia, absent friends.

AGRICULTURAL COLLEGES IN THE UNITED STATES

State or Territory Name of Instituti	
Alabama Alabama Polytechnic Institute. Agricultural School of the Tuskegee Normal and J Agricultural and Mechanical College for Negroes. Arizona College of Agriculture of the University of Arizon. Arkansas. College of Agriculture of the University of Arizon. Arkansas. College of Agriculture of the University of Arizon. Branch Normal College. California College of Agriculture of the University of Califor Colorado. Connecticut Connecticut Agricultural College of Colorado. Connecticut Connecticut Agricultural College. State College for Colored Students. Florida College of Agricultura of the University of Florida. Florida Agricultural and Mechanical College for N. Georgia Georgia State College of Agriculture. Georgia State Industrial College. Hawaii College of Hawaii.	on Location
Agricultural School of the Tuskegee Normal and I	ndustrial InstituteTuskegee Institute
Arizona College of Agriculture of the University of Arizon	Normal
Arkansas College of Agriculture of the University of Arkans	asFayetteville
CaliforniaCollege of Agriculture of the University of California	Pine Bluff
Colorado The State Agricultural College of Colorado	Fort Collins
Delaware Delaware College	Storrs
State College for Colored Students.	Dover
Florida College of Agriculture of the University of Florida Florida Agricultural and Mechanical College for N	Gainesville
Georgia Georgia State College of Agriculture	······Athens
Hawaii College of Hawaii	Savannah
Idaho College of Agriculture of the University of Idaho.	
Illinois College of Agriculture of the University of Illinois.	Urbana
IowaIowa State College of Agriculture and Mechanic A	rtsAmes
Kansas Kansas State Agricultural College	
The Kentucky Normal and Industrial Institute for	Colored PersonsFrankfort
LouisianaLouisiana State University and Agricultural and Machanie	lechanical College Baton Rouge
Maine College of Agriculture of the University of Maine.	Orono
Maryland Maryland Agricultural College	College Park
Massachusetts . Massachusetts Agricultural College	Amherst
Massachusetts Institute of Technology	Boston
MinnesotaCollege of Agriculture of the University of Minnesot	ota
Mississippi Mississippi Agricultural and Mechanical College	Agricultural College
Missouri College of Agriculture of the University of Missouri	i Columbia
Georgia State Lollege of Agriculture. Georgia State Industrial College. Hawaii. College of Hawaii. Idaho. College of Agriculture of the University of Idaho. Illinois. College of Agriculture of the University of Idaho. Illinois. College of Agriculture of the University of Illinois. Indiana. School of Agriculture of Purdue University. Iowa. Iowa State College of Agriculture and Mechanic A Kansas. Kansas State Agricultural College. Kentucky The College of Agriculture of the State University The Kentucky Normal and Industrial Institute of Louisiana. Louisiana State University and Agricultural and Mechanic Marian College of Agriculture of the University of Maine. Maine College of Agriculture of the University of Maine. Maryland Maryland Agricultural College. Princess Anne Academy, Eastern Branch of the M. Massachusetts Massachusetts Institute of Technology. Michigan. Michigan Agricultural College. Minnesota. College of Agricultural and Mechanical College. Mississippi Mississippi Agricultural and Mechanical College. Missouri College of Agriculture of the University of Missour School of Mines and Metallurgy of the University of Lincoln Institute. Montana State College of Agriculture and Mechanical	of MissouriRolla
Lincoln Institute	c ArtsBozeman
Nebraska. College of Agriculture of the University of Nebrask Nevada. College of Agriculture of the University of Nevada. New Hampshire New Hampshire College of Agriculture and the Me New Jersey. Rutgers College (the New Jersey State College for	aLincoln
New Hampshire New Hampshire College of Agriculture and the Me	chanic ArtsDurham
New Jersey Rutgers College (the New Jersey State College for	the Benefit of Agriculture and the
Mew Mexico . New Mexico College of Agriculture and Mechanic Ants) New York . New York State College of Agriculture. North Carolina The North Carolina College of Agriculture and Mechanical College of Agriculture.	ArtsState College
New York New York State College of Agriculture and March Coroline The North Coroline College of Agriculture and March Coroline The North Coroline College of Agriculture and March Coroline The North Coroline College of Agriculture and March Coroline The North Coroline College of Agriculture and March Coroline The North Coroline College of Agriculture and March Coroline The North Coroline College of Agriculture and March Coroline The North Coroline College of Agriculture and March Coroline The North Coroline College of Agriculture and March Coroline The North Coroline College of Agriculture and March Coroline The North Coroline College of Agriculture and March Coroline The North Coroline College of Agriculture and March College of Agriculture and March Coroline College of Agriculture and March College of Agriculture and Agriculture and Agricul	hanic Arts West Poleigh
The Agricultural and Mechanical College for the Co	blored RaceGreensboro
North Dakota. North Dakota Agricultural College	Agricultural College
OklahomaOklahoma Agricultural and Mechanical College	Stillwater
Agricultural and Normal University	Langston
The Agricultural and Mechanical College for the Colling North Dakota. North Dakota Agricultural College. Ohio. College of Agriculture of Ohio State University. Oklahoma. Oklahoma Agricultural and Mechanical College. Agricultural and Normal University. Oregon. Oregon State Agricultural College. Pennsylvania. The School of Agricultural College. Pennsylvania. The School of Agriculture of the Pennsylvania State Porto Rico. College of Agriculture and Mechanic Arts of the Un Rhode Island. Rhode Island State College. South Carolina. The Clemson Agricultural College of South Carolina. The Colored Normal, Industrial, Agricultural, and M. South Dakota. South Dakota State College of Agricultura and Mechanicsee. College of Agriculture, University of Tennessee.	CollegeState College
Porto Rico College of Agriculture and Mechanic Arts of the Un	iversity of Porto RicoMayaguez
South Carolina. The Clemson Agricultural College of South Carolina	
The Colored Normal, Industrial, Agricultural, and M	echanical College of South Carolina Orangeburg
Tennessee College of Agriculture, University of Tennessee Agricultural and Mechanical College of Texas Prairie View State Normal and Industrial College	Knoxville
Texas Agricultural and Mechanical College of Texas	
UtahThe Agricultural College of Utah	Logan
Vermont College of Agriculture of the University of Vermont	nd Polytechnic Institute Blacksburg
The Hampton Normal and Agricultural Institute	Hampton
Prairie View State Normal and Industrial College Utah The Agricultural College of Utah Vermont College of Agriculture of the University of Vermont Virginia The Virginia Agricultural and Mechanical College a: The Hampton Normal and Agricultural Institute Washington State College of Washington West Virginia College of Agriculture of West Virginia University The West Virginia Colored Institute Wisconsin College of Agriculture of the University of Wisconsin Wyoming College of Agriculture, University of Wyoming	
The West Virginia Colored Institute	Institute
Wisconsin College of Agriculture of the University of Wisconsin	Laramie
wyoming Conege of Agriculture, Oniversity of Wyoming	

STATE OFFICIALS IN CHARGE OF AGRICULTURE State
Montana Commissioner of Agriculture Helena
Nebraska Secretary of State Board of Agri. Lincoln
Nevada Secretary of State Board of Agri. Carson City
New Hamp. Secretary of State Board of Agri. Concord
N. J. Secretary of State Board of Agri. Concord
N. J. Secretary of State Board of Agri. Trenton
New M. Director of Experiment Station Agri. College
New York Commissioner of Agriculture Albany
N. Car. Commissioner of Agriculture. Raleigh
N. Dak. Commissioner of Agriculture. Bismarck
Ohio. Secretary of State Board of Agri. Columbus
Oklahoma President of State Board of Agri. Oklahoma
Oregon. Secretary of State Board of Agri. Salem
Penn. Secretary of Agriculture. Harrisburg
Phil. Is. Director of Agriculture. Manila
Porto Rico. Director of Experiment Station. Mayaguez
R. I. Secretary of State Board of Agri. Providence
S. Car. Commissioner of Agriculture. Columbia
S. Dak. Secretary of State Board of Agri. Huron
Tennessee Commissioner of Agriculture Austin
Utah. Director of Experiment Station. Scholars of Albany Location Official Location State Official Arizona . Director of Experiment Station . Tucson Arkansas . Commissioner of Agriculture . Little Rock California . Secretary of State Board of Agri . Sacramento Colorado . Secretary of State Board of Agri . Fort Collins Conn. . Secretary of State Board of Agri . Hartford Delaware . Secretary of State Board of Agri . Dover Florida . Commissioner of Agriculture . Tallahassee Georgia . Commissioner of Agriculture . Atlanta Guam . Director of Experiment Station . Guam Hawaii . Sec. of Territorial Board of Agri . Honolulu Idaho . Comm . of Immigration, Labor, and . Statistics . . Boise Idaho... Comm. of Immigration, Labor, and
Statistics.

Statistics.

Boise
Illinois. Secretary of State Board of Agri. Springfield
Indiana Secretary of State Board of Agri. Indianapolis
Iowa. Secretary of State Board of Agri. Des Moines
Kansas. Secretary of State Board of Agri. Topeka
Kentucky. Commissioner of Agriculture. Frankfort
Louisiana. Commissioner of Agriculture. Baton Rouge
Maine. Commissioner of Agriculture. Augusta
Maryland Director of Experiment Station. College Park
Mass. Secretary of State Board of Agri. Boston
Michigan. Secretary of State Board of Agri. East Lansing
Minnesota Secretary of State Board of Agri. Jackson
Miss. Commissioner of Agriculture. Jackson
Missouri. Secretary of State Board of Agri. Columbia Texas. Commissioner of Agriculture. Austin Utah. Director of Experiment Station Logan Vermont Commissioner of Agriculture. St. Albans Virginia Commissioner of Agriculture. Richmond Wash. Commissioner of Agriculture. Olympia W. Va. Secretary of State Board of Agri. Charleston Wisconsin Secretary of State Board of Agri. Madison Wyoming. Director of Experiment Station Laramie

AGRICULTURAL EXPERIMENT STATIONS OF THE UNITED STATES

Alabama (College), Aúburn. Alabama (Canebrake), Uniontown. Alabama (Tuskegee), Tuskegee Institute. Alaska, Sitka (Rampart, Kodiak, and Fairbanks). Alaska, Sitka (Rampart, Kodiak, a Arizona, Tucson. Arkansas, Fayetteville. California, Berkley. Colorado, Fort Collins. Connecticut (State), New Haven. Connecticut (Storrs), Storrs. Delaware, Newark. Florida, Gainesville. Georgia, Experiment. * Guam. Hawaii (Federal). Honolulu • Guam.

Hawaii (Federal), Honolulu.

Hawaii (Sugar Planters'), Honolulu.

Idaho, Moscow.

Illinois, Urbana.

Indiana, Lafayette.

Iowa, Ames.

Kansas, Manhattan.

Kentucky, Lexington.

Louisiana (Sugar), New Orleans.

Louisiana (State), Baton Rouge.

Louisiana (State), Baton Rouge.

Louisiana (Rice), Crowley.

Maine, Orono. Maine, Orono.
Maryland, College Park.
Massachusetts, Amherst.
Michigan, East Lansing.
Minnesota, University Farm, St. Paul.
Mississippi, Agricultural College.
Missouri (College), Columbia.
Missouri (Fruit), Mountain Grove.
Montana, Bozeman.
Nebraska, Lincoln.
Neyada, Reno. Maine, Orono. Nevada, Reno.

New Hampshire, Durham.
New Jersey (State), New Brunswick.
New Jersey (State), Ore Brunswick.
New Jersey (College), New Brunswick.
New Mexico, State College.
New York (State), Geneva.
New York (State), Geneva.
North Carolina, Raleigh and West Raleigh.
North Dakota, Agricultural College.
Ohio, Wooster.
Oklahoma, Stillwater.
Oregon, Corvallis.
Pennsylvania, State College.
Pennsylvania, Institute of Animal Nutrition), State College.
Porto Rico (Federal), Mayaguez.
Porto Rico (Federal), Mayaguez.
Porto Rico (Insular), Rio Piedras.
Rhode Island, Kingston.
South Carolina, Clemson College.
South Dakota, Brookings.
Tennessee, Knoxville.
Texas, College Station.
Utah, Logan.
Vermont, Burlington.
Vermont, Burlington.
Virginia (College), Blacksburg.
Virginia (College), Blacksburg.
Virginia (Truck), Norfolk.
Washington, Pullman.
West Virginia, Morgantown.
Wisconsin, Madison.
Wyoming, Laramie.

Java is the only one of the Dutch East Indies that has been fully opened and developed. Sumatra is being gradually exploited, and the unfriendly tribes brought under control, but Borneo and New Guinea—part of each of which is owned by the Dutch—and minor islands are as yet but little developed. The total area of the Dutch possessions in the Malay Archipelago is 739,000 square miles, while the population is 37,000,000.

WHITE HOUSE BULES

* Address: Island of Guam, via San Francisco.

A. M. until 1 P. M.
Senators and Representatives having business to transact will be received from 10.30 A. M. to 12 M., excepting on Cabinet days. In view of the pressure of business at the Executive Offices during the Congressional session it would greatly

The following rules have been arranged for the conduct of business at the Executive Offices:

The Cabinet will meet on Tuesdays and Fridays from 11 A. M. until 1 P. M.

Senators and Representatives having business to transact will be received from 10.30 A. M. to 12 M., excepting on Cabinet will be received from 10.30 A. M. to 12 M., excepting on Cabinet will be received from 10.30 A. M. to 12 M., excepting on Cabinet will be received from 10.30 A. M. to 12 M., excepting on Cabinet will be received from 10.30 A. M. to 12 M., excepting on Cabinet will be received from 10.30 A. M. to 12 M., excepting on Cabinet will be received from 10.30 A. M. to 12 M., excepting on Cabinet will be received from 10.30 A. M. to 12 M., excepting on Cabinet will be received from 10.30 A. M. to 12 M., excepting on Cabinet will be received from 10.30 A. M. to 12 M., excepting on Cabinet will be received from 10.30 A. M. to 12 M., excepting on Cabinet will be received from 10.30 A. M. to 12 M., excepting on Cabinet will be received from 10.30 A. M. to 12 M., excepting on Cabinet will be received from 10.30 A. M. to 12 M., excepting on Cabinet will be received from 10.30 A. M. to 12 M., excepting on Cabinet will be received from 10.30 A. M. to 12 M., excepting on Cabinet will be received from 10.30 A. M. to 12 M., excepting on Cabinet will be received from 10.30 A. M. to 12 M., excepting on Cabinet will be received from 10.30 A. M. to 12 M., excepting on Cabinet will be received from 10.30 A. M. to 12 M., excepting on Cabinet will be received from 10.30 A. M. to 12 M., excepting on Cabinet will be received from 10.30 A. M. to 12 M., excepting on Cabinet will be received from 10.30 A. M. to 12 M., excepting on Cabinet will be received from 10.30 A. M. to 12 M., excepting on Cabinet will be received from 10.30 A. M. to 12 M. excepting on Cabinet will be received from 10.30 A. M. to 12 M. excepting on Cabinet will be received from 10.30 A. M. to 12 M. excepting on Cabinet will be received from 10.30 A. M. to 12 M. excepting on Cabinet will

JOSEPH P. TUMULTY, Secretary to the President.

53.3 36.4 48.7 52.4

7.4

29.4

4.1

Owners mtgd.—

Owners free-

63.3

58.2

83.2 92.6

63.5 70.6 37.2 63.2 70.0 36.5

81.1 95.9 18.4 18.9

85.3 96.8 85.9 87.0

1890 1910 1900

53.6

63.6 46.3 42.4

51.3 47.6 48.0

44.5 44.8

47.0 46.7 57.6 63.6 46.3 44.8 46.4

51.8

50.9 31.4

38.2 36.7 39.4 45.4

18.8

36.5 36.8 30.0

16.0 14.7

12.6 14.1 13.0 18.5 15.8 4.9

1910 1900 53.7 55.2

MORTGAGED FARMS

Minnesota.....

Iowa 48.2 47.0 Missouri 53.7 57.6 North Dakota 49.1 68.6

South Atlantic... 81.2

South Dakota 61.8 Nebraska 60.6

Kansas..... 55.2

Delaware 62.8 Maryland 63.5 District of Columbia 81.6

 Virginia
 84.0

 West Virginia
 87.4

 North Carolina
 81.5

Census figures show a steady decline in the number of farms and farm homes owned free and a corresponding increase in the number of those mortgaged. Between 1890 and 1910 the percentage of such property mortgaged has risen from 28.2 to 33.6. In 1900 it was 31.1 percent

the Multiper of those mortgaged. Detween 1970 and 1970 the percentage of such property mortgaged has risen from 28.2 to 33.6. In 1900 it was 31.1 per cent.

Analysis of the tables indicates that the movement is not evenly distributed throughout the United States. One section, the West North Central, shows an opposite movement, but on the whole mortgaged indebtedness is growing much faster than

it should.

While the percentage of owners carrying mortgages has increased from 28.2 per cent in 1890 to 33.6 in 1910, the percentage of "owners free" in the continental United States has diminished from 71.8 per cent twenty years ago, to 66.4 per cent in 1910. Here is the table on which this is based:

TOTAL	TO D	THEFT	DECADES

TOTALS	LOK I	111/11	e DEC	WDE2			South Carolina	76.0	79.4	92.0	24.0	20.6	8.0
			Own	ners	Per	cent.	Georgia	81.0		96.6	19.0	14.7	3.4
Year	Fr	ee	mort	gaged		gaged	Florida	85.2		97.1	14.8	10.3	2.9
1890	2.25	55,789		86,957		28.2							
1900		1,101		27,302		31.1	East S. Central	77.3	83.0	95.5	22.7	17.0	4.5
1910		1.073		27,649		33.6	Kentucky	80.4		95.9	19.6	15.2	4.1
	-,	,	2,0.	-,,,,,,			Tennessee	83.1		96.8	16.9	11.5	3.2
PER	CENT	TO T	TOTA	Τ.			Alabama	73.1	80.8	95.6	26.9	19.2	4.4
1.011							Mississippi	67.1	72.9	92.3	32.9	27.1	7.7
			ree—				West S. Central.	69.4	81.8	95.2	30.6	18.2	4.8
	1910		1890	1910	1900	1890	Arkansas	78.6		95.8	21.4	14.3	4.2
Continental U. S	66.4	68.9	71.8	33.6	31.1	28.2							
New England	65.1	65.9	71.7	34.9	34.1	28.3	Louisiana	81.0		96.0	19.0	17.7	4.0
Maine	73.4	73.3	77.9	26.6	26.7	22.1	Oklahoma	56.5		64.3	43.5	9.2	1111
New Hampshire		74.5	78.2	25.6	25.5	21.8	Texas	66.7		94.3	33.3	23.4	5.7
Vermont	53.1		55.7	46.9	46.9	44.3	Mountain	79.2	85.6	85.9	20.8	14.4	14.1
		61.4	69.5	40.9	38.6		Montana	78.9	86.0	84.4	21.1	14.0	15.6
Massachusetts	59.1					30.5	Idaho	66.6	83.6	83.7	33.4	16.4	16.3
Rhode Island	70.4	72.9	80.9	29.6	27.1	19.1	Wyoming	80.3		87.0	19.7	12.2	13.0
Connecticut	56.8	59.3	68.9	43.2	40.7	31.1	Colorado	73.6	73.0	74.5	26.4	27.0	25.5
Middle Atlantic.	61.7	59.7	63.0	38.3	40.3	37.0	New Mexico	94.6	97.9	97.0	5.4	2.3	3.0
New York	56.3	53.7	55.8	43.7	46.3	44.2	Arizona	87.1	94.0	93.2	12.9	6.0	6.8
New Jersey	50.4	48.1	51.1	49.6	51.9	48.9	Utah	77.1	88.9	94.5	22.9	11.1	5.5
Pennsylvania	68.9	67.7	72.6	31.1	32.3	27.4	Nevada	83.3	80.7	82.8	16.7	19.3	17.2
East N. Central.	59.1	60.6	62.4	40.9	39.4	37.6	Pacific	63.2	72.4	71.3	36.8	27.6	28.7
Ohio	71.1	70.2	71.1	28.9	29.8	28.9	Washington	65.9	78.3	73.2	34.1	21.7	26.8
Indiana	61.2	63.5	66.9	38.8	36.5	33.1	Oregon	66.3		76.6	33.7	25.2	23.4
Illinois	60.8	60.7	63.3	39.2	39.3	36.7	California	59.5	67.8	67.5	40.5	32.2	32.5
Michigan	51.8	51.7	50.6	48.2	48.3	49.4	Note-Owned farms	and	farm h	omes	with n	o mor	tgage
Wisconsin	48.6	54.2	57.1	51.4	45.8	42.9	report are distributed	betwe	en "ov	vners i	ree" a	nd "o	wners
West N Central	53.8	55 7	52 0	46.1	44.3	48 O	mortgaged."						

LEADING FRUIT PRODUCING STATES

	First	Second	Third .	Fourth
Apples	New York	Pennsylvania	Ohio	Virginia
The state of Newtonian	('a litornia	Texas	INCW ICISEY	IVEW YORK
7	California	New York	Ivew tersev	Pennsylvania
TO 1 TO	California	()regon	New York	wasnington
01 1	Pennculvania	(alifornia	Indiana	IVEW YORK
Apricots	*Colifornia	Arizona	New York	Utah
Apricots	ties applicat area of t	ha United States		

SUGAR PRODUCTION (Pounds)

Vear	Production	in U. S.		Brought from		Per capita	* World's
ending			Death Dies	The state of the same	Hawaii	consumption in U.S.	Production Estimated
Tune 30	Cane	Beet	Porto Rico	Philippines 1			
1907	544.320,000	769.224.000	408,149,992	. 25,164,756		81 . 19	
1009			469,205,082	. 38.408.000	.1,077,570,637.	74.11	30,632,000,000
1000			488.452.733	. 83.648.000	.1,022,863,928.	80.43	32,008,000,000
1909	750,400,000		569.039.881	.175.869.739	.1,110,594,466.	79 . 90	32,826,000,000
	E 4 0 000 000	1 020 244 000	645 834 403	.230,351,483	.1,011,215,858.	77 . 15	37,164,000,000
					.1,205,465,510.	82.43	35,639,000,000
1913	600,996,000	1 466 802 000	641 252 527	116.749.211	.1.114.750.702.	89.14	41,983,000,000
1914	690,996,000	4 444 109 000					40,376,000,000
1015	. 493.240.000	1,444,100,000					

Louisiana produces all but a very small part of the cane sugar made in the United States. About half of the world's sugar

production is beet.

STATISTICS OF CHURCHES IN THE UNITED STATES

(Compiled by H. K. Carroll, LL.D., Associate Secretary Federal Council of Churches of Christ in America)

RELIGIOUS ORGANIZATIONS

RELIGIOUS OR	OFFICE AND A SECOND	CHOILE	Communi-
Denominations > :	Minister	Churches	
Adventists (6 bodies)	1,169. 42,710.	. 2,579.	6,179,622
Baptists (15 bodies) Brethren (Dunkards, 4 bodies)	2 422	. 57,537.	121 475
Brethren (Dunkards, 4 Dodles)	3,433.	. 1,289.	. 121,475
Brethren (Plymouth, 4 bodies)		. 403.	. 10,566
Brethren (River, 3 bodies)	224.		4,903
Buddhist (2 bodies)	15.	. 74. 24.	3,165
Catholic Apostolic (2 bodies)	33.	. 24.	. 4,927
Catholic Apostolic (2 bodies) Catholics (Eastern Orthodox, 7			
bodies)	341.	401.	. 462,500
Catholics (Western, 2 bodies)	19,068.	. 15,055.	.13,813,137
('hristadelphiane		. 70.	. 1,412
Christians	1.066.	. 1.360.	. 113.887
Christian Catholic (Dowie)	35.	. 17.	5,865
Christian Scientists	2,672.	. 1,336.	. 85,096
Christian Union	354.	302,	. 15,217
Christian Union	0011		. 10,21.
Charles or God (Astroprétation	509.	505	41,475
Churches of the Living God	309.	. 393.	. 41,775
Churches of the Living God	101	60	1 206
(Colored, 3 bodies)	101.	. 68.	. 4,286
Churches of the New Jerusalem	440	4.45	0.684
(2 bodies)	. 143.,		. 9,671
Communistic Societies (2 bodies).		. 22.	. 2,272
Congregationalists	6,091.	6,129.	. 755,088
Disciples of Christ (2 bodies)	8,261.	. 11,143.	. 1.519.821
Evangelical (2 bodies)	1,569.	2,598.	. 190,293
Faith Associations (9 bodies)	241.	146.	. 9,572
Free Christian Zion Church	20.	. 15.	. 1,835
Friends (4 bodies)	1.471.	1.042.	. 122,004
Friends of the Temple	3.	. 146. . 15. . 1,042. . 66. . 1,365.	. 376
German Evangelical Protestant .	50	66	. 34,704
German Evangelical Synod	1.058	1 365	290,803
Jewish Congregations	1,084.	1,769.	143,000
Latter Day Sainte (2 hodies)		1,625.	375,000
Latter-Day Saints (2 bodies) Lutherans (21 bodies)	9,450.	16,220.	. 2,444,970
Management (12 bodies)	1,413.	736.	. 4,444,970
Mennonites (12 bodies)	41,525.	60 616	57,337
Methodists (16 bodies)	41,323.	62,416.	. 7,328,829
Moravian (2 bodies)	147	143.	. 20,615
Nonsectarian Bible Faith Churche	es 50.	204.	
Pentecostal (2 bodies)	802.	738.	. 28,946
Presbyterians (12 bodies)	14,066.	16,834.	
Protestant Episcopal (2 bodies).	5,629.	8,002.	. 1,026,048
Reformed (4 bodies)	2,177.	2,770.	478,951
Reformed Catholic	7	924.	. 3,250
Salvationists (2 bodies)	2,967.	924.	. 3,250
Salvationists (2 bodies) Scandinavian Evangelical (3			
bodies)	629	857.	./ 72,900
bodies)	5.	6.	
Social Brethren	15.	17.	1,262
Social Brethren	7.	6	2 450
Spiritualists		2 100	2,450
Theographical Society		154	. 200,000
Spiritualists	E24	134.	. 4,714 . 70,542
Unitarians	324.	475.	. 70,542
United Brethren (2 Dodles)	2,200.	4,086.	. 343,016
Universalists	650	717. 879.	52,000
Independent Congregations	267	879.	. 48,673
Universalists. Independent Congregations. Grand Total for 1914	178,520.	225,575.	.38,724,347
Grand Total for 1913	175,078	224,172.	.37,945,071

CONSTITUENT BODIES OF THE FEDERAL COUNCIL

			Communi-
Denominations	Ministers (Churches	cants
Baptist Churches (North)	. 8,275	9.570	1,238,323
National Baptist Convention	. 13,806	16,842	2.018,868
Free Baptist Churches	. 805	1,110	
Christian Church	. 1.066	1,360	
Congregational Churches		6,129	755,088
Disciples of Christ	. 6,161	8,494	1,363,163
Friends	. 1,315.,	775	98,356
German Evangelical Synod	. 1,058	1.365	290,803
Evangelical Association	. 1,031	1,663	.115.243
Lutheran Church General Synod		1,847	340,441
Mennonite General Conference.	. 172	112	12,797

CONSTITUENT BODIES OF THE FEDERAL

COUNCIL-	-Cont'd	7	
			Communi-
Denominations N	Iinisters (Churches	cants
Methodist Episcopal Church	18.881	28,245	3,603,265
Methodist Episcopal Church,			
South	7.099	16,691	2,005,707
African M. E. Church	5,000		620,000
African M. E. Zion Church	3,552		568,608
Colored M. E. in America	3,072		240,798
Methodist Protestant Church	1,371		180,382
Moravian Church		122	19,615
Presbyterian Church in the U.S. A		10,019	
Presbyterian Church in the	. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10,012 %.	1,114,170
United States (South)	1.810	3 430	310,602
Protestant Episcopal Church	1,017	0,100	010,002
(Commissions on Christian			
Unity and Social Service)	5,546	7,922	1,015,248
Reformed Church in America	775		123,143
Reformed Church in the U.S	1,217		312,660
Reformed Episcopal Church	83		10,800
Reformed Presbyterian Church	, 00	30	. 10,000
(General Synod)	16	17	3,300
Seventh-Day Baptist Church			7,927
United Brethren Church	1,953	3,583	322,044
	538	0,500	75,050
United Evangelical Church			
United Presbyterian Church			48,220
Welsh Presbyterian Church			14,374
Total1	05,0181	30,0/0	17,430,030

INCREASE IN COMMUNICANTS BY PERIODS

Denominations of One H	UNDRED THO	USAND OR M	fore
	Total in	Increase	since
Denominations	1914	1910	1900
Roman Catholic	13,794,637	1,228,5905	.621.686
Methodist Episcopal	3,603,265	416,403	693,334
Southern Baptist	2,592,217.	309,151	953,332
Baptist (Colored)	2,018,868	228,703	424,304
Methodist Episcopal, South .	2,005,707	154,558	537,317
Presbyterian (Northern)	1,442,498	113,784	495,065
Disciples of Christ	1,363,163	55,047	213,181
Baptists (North)	1,238,323	27,610	238,666
Protestant Episcopal	1,015,238	86,468	304,892
Lutheran Synodical Confer-	-,,		001,072
ence	850,772	84,481	269,743
Congregationalists	755,088	19,688	123,728
African Methodist Episcopal .	620,000	120,000	d44,462
African Methodist Episcopal	020,00011	220,00011	W11,102
Zion	568,608	21.392	32,337
Lutheran General Council	479,765	20,541	123,364
Lutheran General Synod	340,441	38,001	140,852
United Brethren	322,044	38,362	82,405
Reformed (German)	312,660	15,544	69,829
Southern Presbyterian	310,602	28,682	84,712
Latter-Day Saints, Utah	310,000	d*50,000	
German Evangelical Synod	290,803	54,188	87,229
Colored Methodist Episcopal	240,798	6.077	35,826
Spiritualists	200,000	50,000.	154,070
Methodist Protestant	180,382	d8.055	d3,332
Greek Orthodox	175,000	50,000	170,000
Lutheran United Norwegian.	168,363	6,399	38,363
Churches of Christ (Disciples)	a156,658		
United Presbyterian	148,220	13,210	27 210
Jewish Congregations	143,000	10,210	32,319
Lutheran Synod of Ohio	136.923	9,493	59,561
Reformed (Dutch)	123,143	6,328	
Cumberland Presbyterian	122,000	7,000	
Lutheran Synod of Iowa	116,912	10,319	
Evangelical Association	115,243		
Christians	113,887	26,409	18,899
Primitive Baptist		20,409	
A D	102,311		

^{*} Probably not due to actual decrease. Due to more correct figures.

a Result of division reported since 1900.

d Decrease.

TABLES FOR FINDING THE DAY OF THE WEEK FOR KNOWN DATES

		TAB	LE 1				T	ABLE	2			Used for	Both st	Styles	BLE s. The	ie vei	tical	colun	ns
													A	В	C	D	E	F	G
	Centurial Years, New Style					Centurial Years, Old Style						Jan. Oct.	1 8 15 22 29	2 9 16 23 30	3 10 17 24 31	11 18 25	5 12 19 26	6 13 20 27	7 14 21 28
Years less than	1700	1800	1500			100	200			500		Feb. March Nov.	5 12 19	6 13 20	7 14 21	1 8 15 22	2 9 16 23	3 10 17 24	4 11 18 25
Century							900				لنبند		26	27	28	29	30	31	
1 29 57 85 2 30 58 86 3 31 59 87 4 32 60 88	C B A G FE	E D C B AG	2300 G F E D CB	BA G F E DC	DC B A G FE	ED C B A GF	FE D C B AG	GF E D C BA	AG F E D CB	BA G F E DC	CB A G F	April July	2 9 16 23 30	3 10 17 24 31	11 18 25	5 12 19 26	6 13 20 27	7 14 21 28	1 8 15 22 29
5 33 61 89 6 34 62 90 7 35 63 91 8 36 64 92 9 37 65 93 10 38 66 94	DCBAG FE	FEDBAG	A G F E C B	BAGEDC	DCBAG AFE	E D C B G F	FEDBAGE	GFECBA	AGFECB	B A G FE D C	CBAGED	Aug.	6 13 20 27	7 14 21 28	1 8 15 22 29	2 9 16 23 30	3 10 17 24 31	4 11 18 25	5 12 19 26
11 39 67 95 12 40 68 96 13 41 69 97 14 42 70 98 15 43 71 99 16 44 72	D CB A G F ED	F ED C B A GF	A GF D C BA	B AG F D CB	D CB AG FD	E DC B A G FE	ED C B A	G FE D C B AG	A GF E D C BA	B AG F D CB	BA GF EDC	Sept. Dec.	3 10 17 24 31	11 18 25	5 12 19 26	6 13 20 27	7 14 21 28	1 8 15 22 29	2 9 16 23 30
17 45 73 18 46 74 19 47 75 20 48 76 21 49 77 22 50 78 23 51 79	C B A GF E D C	E D C BA G F E	G F E C B A G	AGFDCBA	CB A GF DC	D C B AG F E D	E D C BA G F E	F D CB A G F	G F DC B A	A G F C B	BAGEACE	May .	7 14 21 28	1 8 15 22 29	2 9 16 23 30	3 10 17 24 31	4 11 18 25	5 12 19 26	6 13 20 27
24 52 80 25 53 81 26 54 82 27 55 83 28 56 84	BA GF EDC	DC B A G FE	FE D C B AG	GF EDC BA	BA G F DC	CB A G F ED	DC B A G FE	ED C B A GF	FE D C B AG	A GF E D C BA	AG F E D CB	June	11 18 25	5 12 19 26	6 13 20 27	7 14 21 28	1 8 15 22 29	2 9 16 23 30	3 10 17 24

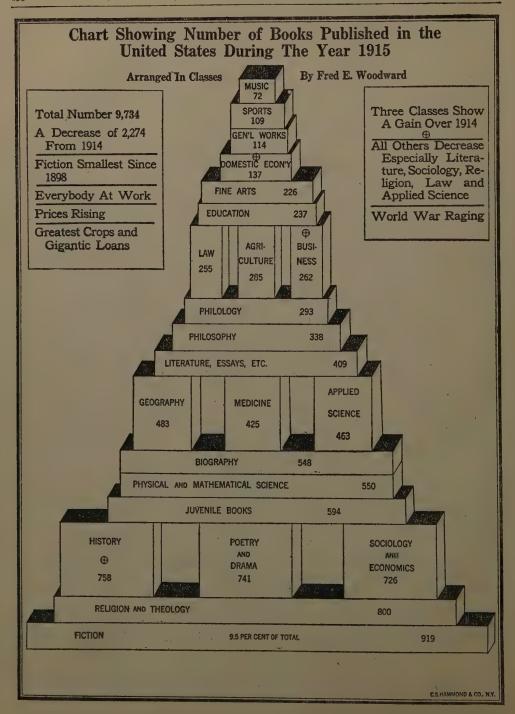
The first seven letters of the alphabet, in numerical order, have long been used in almanacs as "Dominical Letters," or Sunday letters, to indicate what day of the week the year begins on. The days on which consecutive year begin are in reverse order of the Sunday letters, A, B, C, D, E, F, G, and these show the days of the week for Jan. 1 as follows: A, Sunday, B, Saturday, C, Friday, D, Thursday, E, Wednesday, F, Tuesday, and G, Monday.

If the year is a leap-year, there must be two letters for it; the left-hand must be used for Jan. and Feb. only, and the other letter used for the other ten months. A table of Dominical Letters affords a very simple and ready method of inding the day of the week, of any day of any month, in any year. Table 1 gives the dominical letters for the "Gregorian Style," now in general use, beginning in the Catholic States of Europe in 1582. Their Chis was not adopted by England until 1752, and Russia not until 1901. The Julian Calendar, or "Old Style," as now designated, was founded by Julius Caesar, and began with the year 45 B. C. It assumed the civil year to be just 365 ½ days long, which was 11½ minutes too much, and every fourth year was of 366 days. In 1582 this error amounted to 10 days, and Sunda Oct. 5th was counted 15th. The history of the world, from 45 B. C., to 1582, over 1600 years, is very largely recorded in days.

the old style dates. That these dates may be put into week-days for the convenience of students of history, Table two is given above. There are no dates in this style prior to 45 B. C. Table 3 can be used in both "Old and New Style." In this Table the Sundays in any month are under the Dominical Letter for the year given, and in the vertical column opposite to the month given, and once knowing the Sundays, the other days are mentally obtained.

Example: On what day of the week did Columbus discover America (San Salvador), Oct. 12, 1492? This being an "old style" date, Table 2 must be used. Under the Centurial 1400, and at the right of 92 are the letters AG (a leap-year). In Table 3, under G, the 14th of Oct. is found to be Sunday, and hence the 12th was Friday, the day sought. When the given year has two letters, the first applies only to Jan. and Feb. Therefore G is used in this case.

Example: On what day of the week was Abraham Lincoln shot, April 14th, 1865? This is a New Style date, and Table 1 must be used. Under the Centurial year 1800, and opposite 65 is A, and in Table 3 under A the 16th of April is found to be Sunday, hence the 14th was Friday, the day wanted, and by a strange coincidence it was "Good Friday" of Church days.



THE BOOKS OF 1915

set back in 1915, when compared with previous years, the de-cline amounting to 2,276. This is about 19 per cent of 12,010,

the total for 1914.

No doubt the great European War supplies the reason for the decline in a large measure, as the facilities for getting books and materials from across the water were lessened, and a disturbed condition of the whole world interfered with the publica-

tion of books in this country.

For convenience, the books of the year are divided into 23 classes as shown in the accompanying chart, and the actual number of books published during the year is seen in the figures

marked in each section.

marked in each section.

Thus, the largest one shows that 919 works of Fiction were issued in 1915 and the smallest one, 72 on Music. This is an exceedingly small number for Fiction and is but 9.44 per cent of the whole number. It is also smaller than any year since 1898, when the total for Fiction was 932.

When we compare the chart with the figures for 1914, we discover that there was a loss of 2,274, which was divided among 20 classes, and that three classes only made gains. These three were History, with a gain of 177, Domestic Economy with a gain of 2, and Business with a gain of 35.

Religion and Theology has always had a large registration, the average for the past nine years being above 800, the figures for 1914 being 1,032 and 1915, 800.

Poetry and Drama, although large (741), was larger still in 1914 when 903 titles were recorded, the largest number ever registered. Every year since 1906 the number has been 600 or more.

or more.

or more. Sociology and Economics, number four on the chart, was number three in 1914 when 1,038 were registered. This class has shown a wonderful increase during the past 15 years, keeping pace practically with the Socialistic vote for the same period and reflecting the thoughtful manner of the people. History, with 756, registers the largest number in its history, an increase of 177 over last year and of 217 over 1912. The large number of books on the European War suggests the reason for the increase, as many of the books on war must be classed as history.

history. Juvenile books with 594 does not change very much, as the average for the past 5 years has been about 600. Reprints are not numerous in this class, and 25 per cent of the whole are

Both Physical and Mathematical Science and Applied Science show increased numbers during the past 8 years, the total in

show increased numbers during the past 8 years, the total in some years rising to 1,500 in the two classes.

Medicine and Hygiene shows a decline not only for 1915, but a decrease during the past 7 years, the total in 1909 being 756 as against 463 in 1915.

History, Biography and Travel, including Memoirs and Genealogy all exhibit a steady growth in recent years, the increase beginning in 1899 in Biography, 1903 in History, 1907 in the others, and this growth has been well maintained.

Education has hardly held its own in the last 15 years, the largest number ever recorded being in 1900 (641). In 1911, a new class was made called Philology, and no doubt some of the books entered in this class in 1911 and in subsequent years would have been classed as Education in the earlier classification.

Philosophy with 338 in 1915 shows a decline from the previous year, when 408 were registered, although the past six years gives an aggregate of 2,000 titles of which only 318 were reprints. For twenty years previous to 1910 the output of this class was

very small.

Law. This class presents a serious problem; large in numbers even twenty-five years ago, it increased from 348 in 1891 to 862 in 1912. Then began a decline which is most extraordinary. In 1913, the loss was 150 (from 862 to 692). In 1914, the loss was 185 (from 692 to 507). In 1915, the loss was 252 (from 507 to 255), a decline of nearly 50%. This is also the smallest number recorded in this class for twenty-six years. The extremely small number of importations, 142 in twelve years, or about twelve per year, can hardly be regarded as a factor in

Games, Sports, and Amusements presents no attractive fea tures, the gain in this class being about in keeping with the increase in population, in the whole country. The years 1904, 1905, and 1910 were times of increase, and the decline of 1906

The publication of books in the United States suffered a severe to back in 1915, when compared with previous years, the define amounting to 2,276. This is about 19 per cent of 12,010, at total for 1914.

No doubt the great European War supplies the reason for the scline in a large measure, as the facilities for getting books and materials from across the water were lessened, and a disputation of the value wayd integrand with the publication authors.

authors.

Fine Arts. This class has never fallen below 135, nor has it risen above 345 in twenty-six years. In 1911, a new class was formed known as Music and since that year 476 books have been recorded in the class of Music. This class has but few reprints, but has many books by foreign authors.

Domestic Economy exhibits an uninteresting line with a slow growth until 1909. In 1911, a new class was formed called Agriculture, the books of which had formerly been grouped with this class. There are very few reissues and a very limited number of books from the other side of the water in either of these two classes. these two classes.

Business is a new class established in 1911, and has enrolled from 210 to 252 in each of the five years. General Works, Encyclopedias, Reference Books, and Mis-cellaneous came into existence in 1901 when 31 books were recorded, the largest number being in 1908, when 293 were

UNITED STATES BOARD OF MEDIATION AND CONCILIATION

The purpose for which the Board of Mediation and Concilia-The purpose for which the board of Mediation and continu-tion, created by act of Congress approved July 15, 1913, was established, is to settle by mediation, conciliation, and arbitra-tion controversies concerning wages, hours of labor or conditions of employment that may arise between common carriers engaged in interstate transportation and their employees en-

gaged in interstate transportation and their employees engaged in train operation or train service.

In any case where an interruption of traffic is imminent and fraught with serious detriment to the public interest, the Board of Mediation and Conciliation may, if in its judgment such action seem desirable, profier its services to the respective

parties to the controversy.

parties to the controversy. Whenever a controversy concerning wages, hours of labor, or conditions of employment arises between such railroads and such employees, interrupting or threatening to interrupt the operation of trains to the serious detriment of the public interest, upon the request of either party the Board of Mediation is required to use its best efforts, by mediation and conciliation, to bring about an agreement. If such efforts to bring about an amicable adjustment through mediation and conciliation are unsuccessful, the board endeavors to induce the parties to submit their controversy to arbitration and, if successful, makes the necessary arrangements for such arbitration. makes the necessary arrangements for such arbitration.

The board is an independent office, not connected with any

The board consists of Martin A. Knapp, Chairman, and William L. Chambers, Commissioner. G. W. W. Hanger is Assistant Commissioner.

FIRST BAILWAYS IN THE UNITED STATES

The first railway in New York State, and among the first in The first railway in New York State, and among the first in America, was the Mohawk and Hudson line, which was completed eighty-five years ago. The line connected Albany and Schenectady, a distance of about thirteen miles. The Mohawk and Hudson Railroad Company was the first corporation of its kind chartered in the New World, having been incorporated in 1825.

Its completion, however, was anticipated by the Baltimore and Ohio, chartered in 1827, which opened a fourteen-mile line early in 1830. Both of these roads were constructed with the idea of carrying both passengers and freight. The Granite line, a three-mile road at Quincy, Mass., and the Mauch Chunk and Summit Hill, which had a mileage of nine, both of which were completed in 1827, were the first railroads on the continent, but both were short industrial lines for freight-carrying purposes only. The first really ambitious railroad was the Charleston and Hamburg, extending from Charleston, S. C.. purposes only. The first really ambitious railroad was the Charleston and Hamburg, extending from Charleston, S. C., to Augusta, Ga., a distance of 137 miles. It was opened in 1833, and was then the longest continuous railway in the world.

STATISTICS OF MANUFACTURING ACCORDING TO INDUSTRIES

INDUSTRY	Number of estab- lish- ments	Wage Earners	Value of Products Amount expressed in thousands	Value added by manufac- ture A mount expressed in thousands	Wage	ENT OF INCE SINCE 1900 Value of products	Value added by manu- facture
Slaughtering and meat packing Foundry and machine-shop products Lumber and timber products	1,641 13,253 40,671	89,728 531,011 695,019	1,370,568 1,228,475 1,156,129	168,740 688,464 648,011	19.0 19.8 30.5	48.6 39.5 30.7	52.6 34.2 23.7
Iron and steel, steel works and rolling mills	446 11,691	240,076 39,453	985,723 883,584	328,222 116,008	15.7 0.9	46.3 23.9	41.0 24.7
Printing and publishing	31,445	258,434	737,876	536,101	18.0	33.6	30.8
wares	1,324 6,354	378,880 239,696	628,39 2 568,077	257,383 270,562	19.9 38.0	39.5 39.7	36.7 38.5
Boots and shoes, including cut stock and findings	1,918	198,297	512,798	180,060	23.7	43.4	36.0
wool hats	985	168,722	435,979	153,101	15.0	36.5	33.4
Tobacco manufactures	15,822	166,810	416,695	239,509	4.6	25.8	16.8
repairs by steam-railroad companies Bread and other bakery products. Iron and steel, blast furnaces. Clothing, women's.	1,145 23,926 208 4,558	282,174 100,216 38,429 153,743	405,601 396,865 391,429 384,752	206,188 158,831 70,791 175,964	19.1 23.3 9.6 32.9	30.9 47.2 68.8 55.4	29.9 39.8 33.9 50.5
Smelting and refining, copper Liquors, malt Leather, tanned, curried and finished Sugar and molasses, not including beet	38 1,414 919	15,628 54,579 62,202	378,806 374,730 327,874	45,274 278,134 79,595	22.6 13.4 8.7	57.3 25.6 29.8	2.8 24.5 29.5
sugar. Butter, cheese, and condensed milk	233 8,479	13,526 18,431	279,249 274,558	31,666 39,012	18.5	0.7 63.2	-2.7 54.4
Paper and wood pulp	777 743 3,155 147	75,978 75,721 128,452 13,929	267,657 249,202 239,887 236,998	102,215 117,556 131,112 37,725	15.2 528.4 12.5 16.9	41.8 729.7 34.9 35.4	32.0 596.3 29.9 5.9
supplies	1,009 613	87,256 6,430	221,309	112,743		57.2	59.7
Liquors, distilled. Hosiery and knit goods. Copper, tin and sheet-iron products Silk and silk goods, including throwsters. Smelting and refining, lead	1,374 4,228 852 28	129,275 73,615 99,037 7,424	204,699 200,144 199,824 196,912 167,406	168,722 89,903 87,242 89,145 15,443	20.1 24.2 38.8 24.4 —2.0	46.0 66.6 47.7 —9.9	49.1 55.8 55.2 —8.5
Gas, illuminating and heating. Carriages and wagons and materials. Canning and preserving. Brass and bronze products. Oil, cottonseed and cake.	1,296 5,492 3,767 1,021 817	37,215 69,928 59,968 40,618 17,071	166,814 159,893 157,101 149,989 147,868	114,386 77,942 55,278 50,761 28,035	21.8 10.2 5.3 22.5 9.9	33,3 2.6 20.4 46.5 53.4	30.0 0.5 16.8 38.1 71.2
Agricultural implements	640	50,551	146,329	86,022	6.7	30.6	35.0
Patent medicines and compounds and druggists' preparations. Confectionery. Paint and varnish. Cars, steam-railroad, not including oper-	3,642 1,944 791	22,895 44,638 14,240	141,942 134,796 124,889	91,566 53,645 45, 87 3	11.8 23.2 22.4	20.9 54.8 37.5	17.5 40.1 47.9
ations of railroad companies	110	43,086	123,730	44,977	26.5	11.3	26.6
Chemicals	349 4,964 2,375 61,887	23,714 65,603 34,907 1,648,441	117,689 113,093 104,719 4,561,002	53,567 75,696 44,692 2,084,399	19.7 28.4 2.1 18.5	56.5 33.3 27.5 41.8	61.5 29.9 -18.6 36.6

Note.—The minus sign (-) indicates a decrease in per cent.

By far the highest percentages of increase are shown for the automobile industry, the gross value of products of which increased more than sevenfold during the five years 1904 to 1909, and more than fiftyfold during the decade as a whole. Other industries which show exceptionally large increases for both five-year periods in all three items are the making of men's and of women's clothing, the bakery and the butter, cheese, and condensed-milk industries, the manufacture of electrical machinery, apparatus, and supplies, and of copper, tin, and sheet-

MANUFACTURES OF THE UNITED STATES

(From 1910 Census Report.)

		NUMBER OR AMOUN	T	PER CENT OF	INCREASE.
	1909	1904	1899	1904-1909	1899-1904
Number of establishments.	268,491	216,180	207,514	24.2	4.2
Persons engaged in manufactures	7,678,578	6,213,612	(1)	23.6	
Proprietors and firm members	273,265	225,673	(1)	21.1	(1) (1)
Salaried employees	790,267	519,556	364,120	52.1	42.7
Wage earners (average number)	6,615,046	5,468,383	4,712,763	21.0	16.0
Primary horsepower	18,680,776	13,487,707	10,097,893	38.5	33.6
Capital. Expenses.	19 452 000 000	\$12,675,581,000	\$8,975,256,000	45.4	41.2
Services	4,365,613,000	13,138,260,000	9,870,425,000	40.5	33.1
Salaries	938,575,000	3,184,884,000 574,439,000	2,389,132,000 380,771,000	37.1	33.3
Wages	3,427,038,000	2, 610,445,000	2,008,361,000	63.4 31.3	50.9 30.0
Materials	12,141,791,000	8,500,208,000	6,575,851,000	42.8	29.3
Miscenaneous	1,945,676,000	1,453,168,000	905,442,000	33.9	60.5
Value of products	20,672,052,000	14,793,903,000	11,406,927,000	39.7	29.7
Value added by manufacture (value of pro-			- ,,		
ducts less cost of materials)	8, 530,261,000	6,293,695,000	4,831,076,000	35.5	30.3
	¹ Figures n	ot available.			

In 1909 the United States had 268,491 manufacturing establishments, which gave employment during the year to an average of 7,678,787 persons, of whom 6,615,046 were wage carners.
These manufacturing establishments paid \$4,365,613,000 in salaries and wages, and turned out products to the value of \$20,672,052,000, to produce which materials costing \$12,141, representations to the percentage of increase was greater in New York, the leading \$20,672,052,000, to produce which materials costing \$12,141, representations to the percentage of increase was greater in New York, the leading \$20,672,052,000, to produce which materials costing \$12,141, represents the net wealth created by manufacturing operations, the products are should be a subject to the growth of the state of the products includes the cost of the materials used, which are either the products of non-manufacturing industries, such as agriculture, forestry, fisheries, and mining, or else are themselves the product of moniming, or else are themselves the product of manufacturing establishments. The value of products derived from this tatter class of materials involves a duplication, inasmuch as the value of these materials has already figured in the value of product for the stablishments before reaching its final form this during the product of the control of the total—overhead charges, depreciation, interest, taxes and other expenses attendant upon the manufacturing industries of the United States as a whole experienced a more rapid growth during the five-year period. The same manufacturing industries of the United States had 268,491 manufacturing industries of the United States as a whole experienced a more rapid growth during the five-year period 1904-1909 than during the period.

in manufacturing industries are as follows:	ows: Establish	Wage
	ments.	Earners.
1. New York	44,935	1,003,981
2. Pennsylvania	27,563	877,543
3. Massachusetts	11,684	584,559
4. Illinois	18,026	465,764
5. Ohio	15,138	446,934
6. New Jersey	8,817	326,223
7. Michigan	9,159	231,499
27 1 6 11 (14 1 1 1 1 1		

Each of these states has the same rank in value of products and value added by manufacture except that Illinois which is third in value of products and value added by manufacture, ranks fourth in number of wage earners, exchanging places with Massachusetts. These seven States do over three-fiths of the total manufacturing in the United States.

The greatest preparations of inspects are parallely in the state.

The greatest percentages of increase are naturally in those States in which the development of manufacturing industries is comparatively recent. Thus Texas, Washington, Oregon, Utah, Oklahoma, Idaho, North Dakota, and Nevada show

								No. of
							Est	ablishments.
1.	New Yo	rk. N.	Y	 				25,938
								9,656
3.	Philadel	phia. I	Pa					8,379
4.	St. Loui	s. Mo.						2,667
5.	Clevelar	ad. Ohi	0	 				2,148
	Detroit.							
7.	Pittsbur	gh. Pa						1,659
ġ.	Boston.	Mass.						3,155
٠,	BYTE TL. D.		formath.	-	- how	of man	ufactum	na antablich

Amboy, Los Angeles, and Seattle.

COMM	411	E.	R	•	П	8	0)	ď	1	ī,	A	R	20	ej	Đ	S	71	١,	C	П	T	H	ES	5 1913	
New York																							.\$	31,973 ,981,69 3	į
London																								1,/91,85/,041	
Hamburg																							_	1.074,187,170)
Listernool																								1.00/,200,4/0	u
Antworn																								1.121.034.795	a
Marceilles																								0/0,431,300	,
Haure													ı.				ī,		ú		٠,			531,096,600	J

410,128,830 10. Calcutta

THE COAL INDUSTRY

The United States produces about 500,000,000 tons of coal annually. The tonnage is sufficient to occupy every mile of steam railroad track in the nation with loaded cars. One-fourth of the freight of all our railroads is coal. New York city consumes and distributes 20,000,000 tons.

city consumes and distributes 20,000,000 tons.

The first record of coal discovered in the United States was made by Father Hennepin at Ottawa, Ill., in 1679. Coal lands that in Washington's time could be purchased at 10 cents an acre are worth to-day \$2,500 to \$3,000 an acre.

The total coal production of the world for 1913, according to statistics, compiled by the U. S. Geological Survey, was 1,443,000,000 tons. United States, 570,048,125 tons; Great Britain and Ireland, 321,922,130; Germany, 281,979,467; France, 45,108,544; Belgium, 25,322,851 tons. England produced 7.09 tons for each inhabitant; the United States, 50,8 tons; Belgium, 3.4 tons; Germany, 4.33 tons, and France, 113 tons. 1.13 tons

The United States, England, and Germany are the only important nations that produce enough coal for their own con-

sumption. France has to import about one-third of its coal.

The U. S. Geological Survey in 1913 estimated the coal supply in the United States as follows:

211 120 121000 000000 00 2000	
State Short t	ons
Alabama	000,000
Arizona	00,000
Arkansas	000,000
	67,000
Colorado	000,000
Georgia	000,000
Idaho	27,000
Illinois	000,000
Indiana 52,673,50	000,000
Iowa	
Kansas	000,000
Kentucky 123,015,00	000,000
Maryland	000,000
Michigan	00,000
Missouri	00,000
Montana	000,000
New Mexico	00,000
North Carolina	34,300
North Dakota	00,000
Ohio 92,943,90	
Oklahoma 54,862,30	
	50,000
Pennsylvania:	
Anthracite	
Bituminous	00,000
South Dakota	
Tennessee	
Texas 30,960,00	
Utah	
Virginia	00,000
Washington	
West Virginia	
Wyoming 670,545,10	00,000
Total3,538,506,3	28,300

COAL MINED IN THE UNITED STATES

	Anthracite	Bituminous	Total
1880	.28,649,812	42,831,758	71.481.570
1890	.46,468,641	111,302,322	157,770,963
1900	.57,367,915	212,316,112	269,684,027
1905	.77,659,850	315,062,785	392,722,635
1906	.71,282,411	342,874,867	414,157,278
1907	.85,604,312	394,759,112	480,363,424
1908	.83,268,754	332,573,944	415,842,698
1909	81,070,359	379,744,257	460,814,616
1910	84,485,236	417,111,142	501,596,378
1911	.90,464,067	405,907,059	496,371,126
1912	84,361,598	450,104,982	534,466,580
1913	91,524,922	478,523,203	570.048.125

The total value of the coal mined in 1913 was \$760,488,785, ar \$1.33 per ton.

FATALITIES IN COAL MINES

1897	934 1906	2,115
1898	1,032 1907	
1899	1,217 1908	
1900		
1901	1,543 1910	
1902		
1903		
1904		
1905	2.175 1914	2,451

There were in 1913, 747,644 men employed in the coal mines of the United States who worked an average of 238 days of the

THE NATIONAL SECURITY LEAGUE

The National Security League is an organization formed in New York, December 1st, 1914, with a view to procuring a thorough knowledge of the naval and military needs of the United States and the best means of supplying them, and supporting in every legitimate manner the plans for the more porting in every legitimate manner the plans for the more efficient organization of the regular army recommended by the Secretary of War. It is the belief of the members that the National Guard should be developed to the limit of efficiency, that the regular army should be increased by 25,000 men, that an organized reserve should be created and maintained, that theoretical training in manoeuvers should be given in American colleges, that some sort of military duty should be required from all citizens between 18 and 45 years of age, and that all citizens colleges, that some sort of military duty should be required from all citizens between 18 and 45 years of age, and that all citizens fitted for military duty should be officially classified. They are against military instruction to public school children, but believe that a course of study should be given in the public schools to emphasize the needs for public service, and that physical training should be made a prominent feature of public school life. They believe that until a satisfactory plan for disarmament has been worked out and agreed upon by the nations of the world, the United States must be adequately prepared for defense. They feel that useless navy-yards and useless and obsolete army-posts should be abolished, the army to be concentrated in a few posts strategically located: that comparaobsolute almy-poss should be abolished, the almy to be concentrated in a few posts strategically located; that comparatively small increase in our military and naval appropriations would be necessary if money were spent wisely and economically. The League is pledged to the work of securing legislation necessary to carry out the plans above outlined. It is the intention to expand the League until it has branches in every leading city. Already it numbers among its members some of the most prominent men in the country. The society is supported on the membership plan, the membership fee being \$1.00. Head-quarters are at 31 Pine Street, New York.

THE SMITHSONIAN INSTITUTION -

The Smithsonian Institution, Washington, owes its origin to a The Smithsonian Institution, Washington, owes its origin to a legacy left by James Smithson, a natural son of the first Duke of Northumberland, who died in 1829, and bequeathed the sum of \$515,000 "for the increase and diffusion of knowledge among men." The founder died in England, but his body was brought over, and interred in the Institution in 1904. The Institution encourages research, and is the chief promoter of scientific investigations of the climate, products, and antiquities of the United States. United States.

THE NATIONAL TOP NOTCH FARMERS' CLUB

The mission of the National Top Notch Farmers' Club is to fire the ambition of the farm boys of the United States to attain to the highest standard of excellence in the production of large yields of the leading crops.

The National Top Notch Farmers' Club is composed of men, boys and girls who have well-authenticated records of growing one hundred or more bushels of corn or oats per acre, fifty or more hundred or more bushels of wheat ner acre. four hundred or more bushels of more bushels of wheat per acre, four hundred or more bushels of potatoes per acre, or six or more tons of alfalfa hay per acre. The office of the Secretary is at Springfield, Illinois.

FOREIGN COMMERCE OF THE UNITED STATES

(Year ending June, 1916)

IMPORTS AND EXPORTS AND COU	BY GRAND D	IVISIONS	LEADING ARTICLES	OF EXP		IN 1	
	12 months ended	with Tune	CLASSES'		1916 (In Mi	illion 1	1915 Dollars)
IMPORTS FROM:	1916	1915	Iron and steel manufactures		621.2		225.9
Grand Divisions:	Dollars.	Dollars.	Explosives		467.1		. 41.5
Europe	616 252 240	614 254 645	Wheat and flour.		302.8		428.4
Grand Divisions: Europe North America South America Asia Oceania Africa Total 2	591.895.543	473 070 706	Wheat and flour. Meat and dairy products		291.1		. 220.1
South America	391,562,018	261,489,563	Mineral oils.		100 4		
Asia	437,181,464	247,770,103	Brass manufactures		104.9		, 20.5 . 96.2
Oceania	96,225,991	52,522,552	Copper pigs, etc Leather and manufactures of		146.6		120.7
Africa	04,705,745	674 160 740	Chemicals, medicines, etc		124.4		46.4
10001	,,197,000,0101	,014,109,140	ratomobiles and parts		120.0		4 68.1
Principal countries:			Cotton goods		112.1		. 72.0
Austria-Hungary	1,431,570	9,794,418	Sugar refined		73.5		. 25.6 . 64.0
Belgium	1 470 570	10.222.860	Coal		00.0		. 55.9
France	102,077,620	77.158.740	Wool manufactures		54.0		. 27.3
Germany	13,945,745	91,372,710	Lodacco, unmanufactured		547		. 44.5
Germany	102,077,620 13,945,743 57,432,436 38,534,509 6,851,714	91,372,710 54,973,726 32,518,890	OatsCars and carriages		48.0		. 57.5 . 17.0
Norway	6,851,714,	10 668 864	Zinc manufactures		45.9		21.2
Russia in Europe	3,613,956	2,512,381	Fruits and nuts		37.0		. 34.0
Spain	27,864,130 11,846,881 21,775,413 308,443,223	2,512,381 18,027,492 11,661,337 19,335,483 256,351,675	Rubber manufactures		35.2		. 14.8
Sweden Switzerland United Kingdom	11,840,881	11,001,337	Wood and manufactures of		32.8		. 24.8
United Kingdom	308.443.223	256 351 675	Corn and corn meal		30.4		. 41.3 . 19.8
Canada	204,010,221	139.341./12	Electrical goods		29.1		. 19.8
Mexico	97.676.544	77,612,691 185,706,901	Oil cake and meal		28.5		. 28.9
Cuba	228,977,567	185,706,901	Boards, deals, etc		27.9		. 25.1
Cuba	112,512,420 132,663,984 64,154,859	73,776,258 99,178,728 27,689,780 40,156,139	Vegetable oils		27.2		. 25.8 . 12.7
Chile	64 154 859	27 689 780	MulesFiber manufactures		71 4		12.3
China	71,655,045	40,156,139	Barley		20.7		. 18.2
China. British East Indies	177 473 346	87,177,237 98,882,638	Fish		20.0		. 12.9
Japan Australia and New Zealand	147,644,228	98,882,638	Fish. Lead manufactures. Agricultural implements.		17.8		. 9.0
Philippine Islands	04,555,441	24,244,039	Agricultural implements		16.0		. 10.3 . 15.1
Egypt	147,644,228 64,553,441 28,232,249 33,254,943	27,244,039 24,020,169 17,371,992	Rye Vegetables		16.0		. 10.8
28,7 po	00,000,000,000	21,072,772	Naval stores		13.5		. 11.1
EXPORTS TO:			All other articles Total domestic exports	,	308.9		218.4
Grand Divisions:				4			.2,710.2
Europe	,999,183,4291,	971,434,687	Recapitulation	191		/alue	915
North America	190 356 555	00 323 057	Carried in—	\$484.78	6 842	\$285	340 701
Asia	278,470,228	114,470,493	Cars and other land vehicles American vessels	490,56	6,720	284	,349,701 ,410,965
Oceania	99,241,555	77,764,725	Foreign vessels—				
Oceania Africa Total 4	43,517,070	28,519,751	Austrian	. 24.04	C 704	45	877,044
Total4	,333,658,8652,	768,589,340	Belgian British	2 110 08	0,584 5 61 <i>4</i>		,439,965 ,215,920
Principal countries:			Danish	62.93	6.331	1,074	,210,720
Austria-Hungary	152,929	1,238,669	Dutch	. 115,39	7,348	108	,386,976
Belgium	21 848 638	20 662 315	FrenchGerman	. 186,66	0,775	126	,517,813 ,917,218
Denmark	55,662,411 630,672,504 288,851	79,824,478 369,397,170 28,863,354	German	142.66	1 161	19	,917,218
France	030,072,504	369,397,170	Italian	. 142,66		36	,668,508 ,004,988
France Germany Greece	4 333 292	3,499,975	Japanese Norwegian	244,27	7,565	158	416,411
Italy	270,489,922	184,819,688	Spanish	. 50,01	1,688		
Netherlands	99,232,930	143 267 010	All other	. 205,01	9,001	210	,972,956
Norway	4,333,292 270,489,922 99,232,930 53,678,126	39,074,701 37,474,380 38,112,969	Total foreign	3 207 04	1 212	2 146	,417,799
Russia in Europe	103,239,003	38 112 060					,111,177
Sweden	51.939.182	78.273.818	EXPORTS BY GI				
United Kingdom	518,046,263	78,273,818 911,794,954		191	6		915
Spain Sweden United Kingdom Canada Central America	466,884,415	300,686,812	Crude material for use in manu		TS 1 752	510	ollars ,455,540
Central America	41,752,081	33,585,728	facturing	. 330,10:	9,132	, 310	,400,040
• Mexico	48,308,542 127,040,067	34,164,447 75,530,382	food animals	380.79	9,902.	507	,003,179
Argenting	65,993,611	32,549,606	Foodstuffs partly or wholly man	-			
Brazil		25 620 555	Foodstuffs partly or wholly man ufactured. Manufactures for further use in	. 596,07	1,882	454,	,565,404
Cuba Argentina Brazil Chili	24,289,652 25,120,896	11,377,181	Manufactures for further use in	662 541	838	355	,862,329
ChinaBritish East Indies	25,120,896	15,402,475	manufacturing	. 002,543			
British East Indies	24,696,035	41.517.780	tion	.1,996,36	7,492	807,	465,511
Japan.	130.255.759	25,029,533 11,377,181 16,402,475 15,980,734 41,517,780 23,353,151	Miscellaneous	100,41	3,908	80,	,826,502
Russia in Asia Australia and New Zealand Philippine Islands British Africa	74.404.108	51,980,049	Manufactures ready for consumption. Miscellaneous. Total domestic exports. Foreign merchandise exporte Total exports.	4,272,397	,774	2,716,	178,465
Philippine Islands	23,420,009	24,755,320	Total exports	4 333 65	3.865	2.768	589,340
British Africa	28,340,948	18,271,085	Total caports	_,_,	,,	_,, _,	,,,,,,

IMPORTS BY GREAT GROUPS

IMPORTS	1915	1916
Crude materials for use in man- ufacturing.	\$575,357,144	\$944,105,228
Foodstuffs in crude condition, and food animals		251,833,794
Foodstuffs partly or wholly man- ufactured	285,725,091	309,708,717
Manufactures for further use in manufacturing	237,176,522: .	359,441,501
Manufactures ready for consump-	335,876,628	315,353,634
Miscellaneous	16,104,791 1,674,169,740	17,440,636 2,197,883,510

EXPORTS OF DOMESTIC BREADSTUFFS, COT-TONSEED OIL, FOOD ANIMALS, MEAT AND DAYLEY PRODUCTS, COTTON, AND MINERAL

OILS	
	12 months ending June
EXPORTS BY GROUPS	1916. 1915
Breadstuffs	. \$415,989,616 \$558,663,479
Cottonseed oil	. 22,515,718. 21,756,944
Cattle, hogs, and sheep	
Meat and dairy products	
Cotton	. 370,993,002 376,214,487
Mineral oils	. 164,234,318, . 132,042,624
Total	.1,231,315,9301,289,735,326
EXPORTS BY PRINCIPAL ARTICLE	s
Corn	
Oats	
Wheat	
Flour	
Beef, canned	
Beef, fresh	
Beef, pickled, etc	
Oleo oil	
Bacon	
Hams and shoulders	
Lard	
Neutral lard	. 4,050,394 3,022,321
Pork, pickled, etc	
Lard compounds	
Crude oil	
Illuminating oil	. 52,132,592 53,409,313
Lubricating oil	
Gasoline, naphtha, etc	
Residuum, fuel oil, etc	

AMERICAN PORTS IN FOREIGN TRADE, 1915–1916

The rank of the different domestic ports in handling the un-precedented foreign trade of the United States in the fiscal year ended June 30, 1916, is indicated by the following compilation prepared by the Bureau of Foreign and Domestic Commerce

prepared by the Bureau of Foreign and Domestic Commerce of the Department of Commerce.

The following table shows the total trade of the 10 leading customs districts as indicated by the commerce passing through the custom houses at their leading ports, with comparisons covering the fiscal years 1915 and 1916. The low position of certain great centers of trade and industry is due to the fact tertain great centers of trade and moustry is the to the fact that imports destined for consumption in their area are to a large extent credited to the exterior ports of first arrival, while exports the product of one locality are often sold first to other domestic jobbing centers or forwarded to agents located on the seaboard or frontier.

Ports and districts	Total	foreign	trade	Imports	Exports
	1916				1916 1915
		(In:	millions	of dollar	s)
New York	3,518.	.2,125.	.1,192.	. 9312	2,3261,194
Boston	342.	. 260.	. 211.	. 153	131 107
New Orleans	301.	. 289.	. 90.	. 80	211 209
Seattle-Tacoma	301.	. 136.	. 136.	. 68	165 68
Philadelphia	294.	. 164.	. 96.	. 73	198 91
Detroit	211.	. 143.	. 29.	. 25	182 118
San Francisco	209.	. 158.	. 114.	. 76	95 82
Baltimore	209.	. 157.	. 28.	. 25	181 132
Galveston	198.	. 240.	. 8.	. 10.,	190., 230
Buffalo	172.	. 105.	36.	. 31	136.74
Total, 10 districts	5,755.	.3,777.	.1,940.	.1,472	3,8152,305
Total, all other	777.	. 666.	. 258.	. 202	519464
Grand totals	6,532.	.4,443.	.2,198.	.1.674	4.3342,769

COMMERCE OF AMERICAN PORTS OR DISTRICTS HAVING EACH A FOREIGN TRADE OF LESS THAN \$103,000,000

Ports and districts	To	tal fore	ign t	rade	Im	ports	Exp	orts
	, 1	916	1915	191	16 1	915	1916	1915
Norfolk-Newport Ne Savannah St. Lawrence R. port		404	(m	milli	ons c	or gon	ars)	9.0
MOLIOIK-MEMBOLT Me	ws.	121	.90.,	15			.108.	09
Savannan		48	. 18			3	. 40.	/3
St. Lawrence K. port	S	107	. ou	50	,	28	. 37.	34
Chicago		30	.55.,	21		29	. 9.	24
Vermont ports		85	.47.,	28		18	. 57.	29
Dakota. Port Arthur. Maine & N. H. ports		50	.30.	17		11	. 39.	25
Port Arthur		34	, 30]		1	33.	29
Maine & N. H. ports		33	.28.	10	}	8	. 23.	20
Mobile		29	.26.,	4	i,	5	. 25.	21
Tampa, Jacksonville								
Pensacola		33	.25.,	7		7	. 26.	18
Portland, Oregon		13	.23	2	2	3	. 11.	20
Portland, Oregon Ohio (Cleveland-Tole	edo)	28	.21	11		8	. 17.	13
El Paso, Tex		10	.17.,	6	i	9	. 4.	8
Charleston, S. C		·8	16	2		3	6.	13
Duluth & Superior								
North Carolina, Wilr			. 13	1	١	2	13.	11
Honolulu, Hawaii		6					. 0.	0
Porto Rico ports		9	.10.	3		3	. 6.	7
Rochester		9	. 8.			3	6.	5
Arizona		22	8.	1.5		5	7	3
Los Angeles			7	4		5	3	2
St. Louis		3	6	3	}	6	. 0.	0
Laredo, Texas		3 17	6			<u> </u>	g.	2
Minnesota (except		11				Z	. 0.	
luth & Superior)		A	A	,		4	0	0
Connecticut						4		0
Montana & Idaho		5	. I.	;	,)	2	. 0.	2
Eagle Pass, Tex		5				2	. 3.	1
Pittsburgh			. 3			2	. 4.	0
Rhode Island		2	. 2	3		2	٠, ٥.	0
Wisconsin		2						
A leake		2						0
Alaska		2						1
Omaha		1	. 4			4	. 0.	0
Louisville		1				1	. 0.	0
Indianapolis								0
All other ports *								0
* Includes Denver		287 600	in	101		202 50	ο in	1016

Houses Denver, \$287,600 in 1915, \$202,500 in 1916; Iowa, \$226,500 in 1915, \$178,180 in 1916; Tennessee, \$126.500 in 1915, \$171,350 in 1916; and Utah and Nevada, \$63,000 in 1915, \$25,500 in 1916.

THE INCOME TAX IN FRANCE

France has an income tax law which became effective January 1st, 1915. By its provisions all net incomes up to 5,000 francs (\$1,000) are exempt from taxation. The scale is 2% on uary 1st, 1915. By its provisions all net incomes up to 5,000 francs (\$1,000) are exempt from taxation. The scale is 2% on one-fifth of the net income between 5,000 and 10,000 francs (\$1,000 and \$2,000), two-fifths of the net income between 10,000 and 15,000 francs (\$2,000 and \$3,000) three-fifths of the net income between 15,000 and 20,000 francs (\$3,000 and \$4,000), four-fifths of the net income between 20,000 and \$2,000 francs (\$4,000 and \$5,000), and five-fifths of the net income above 25,000 francs (\$5,000). There are deductions of 2,000 francs (\$400) if the taxpayer is married, 1,000 francs (\$2,000 francs (\$400) if the taxpayer is married, 1,000 francs (\$200) for every person whom the taxpayer has to support up to the number of five, and 1,500 francs (\$300) for each beyond that number—these legal dependents being children under 21, or older if infirm; parents and grandparents, when infirm, or aged 70 or upwards. People are free to declare or not to declare their net incomes, but great advantages are offered to those who take the initiative by declaring in January or February their total incomes, with indication of family burdens, debts, etc., without needing to name the specific elements composing the income. If the declaration is not made by March 1st, the person receives a notice, in a sealed envelope, informing him that he may during March still make the declaration, but must now indicate the different elements composing the income; and if he persists in his silence, the Administration will assess him at a figure that it will indicate. Naturally, the Administration will assess him at a figure that it will indicate. Naturally, the Administration will adopt a figure higher than any probable income of the taxpayer, who to relieve himself of the burden will have to bring forward all his books and accounts. In other words, if the taxpayer makes a declaration, it will be for the Administration to prove, it it can, that this declaration is incorrect. If the Administration assesses, it will be for the taxpayer

FOREIGN COMMERCE

MERCHANDISE IMPORTED AND EXPORTED

Year ending		Exports.		Imports	Total exports	Excess of exports over
June 30—	Domestic	Foreign	Total	•	and imports	imports
1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907	\$872,270,283 1,015,732,011 831,030,785 869,204,937 793,392,599 863,200,487 1,032,007,603 1,210,291,913 1,203,931,222 1,370,763,571 1,460,462,806 1,355,481,861 1,392,231,302 1,435,179,017 1,491,744,641 1,717,953,382	\$12,210,527 14,546,137 16,634,409 22,935,635 14,145,566 19,406,451 18,985,953 21,190,417 23,092,080 23,719,511 27,302,185 26,237,540 27,910,377 25,648,254 26,817,025 25,911,118 27,133,044	**R84,480,810** 1,030,278,148 847,665,194 892,140,572 807,538,165 882,606,938 1,050,993,556 1,231,482,330 1,227,023,302 1,394,483,082 1,487,764,991 1,420,141,679 1,460,827,271 1,518,561,666 1,743,864,500 1,880,851,078	\$844,916,196 827,402,462 866,400,922 654,994,622 731,969,965 779,724,674 764,730,412 616,049,654 697,148,489 849,941,184 823,172,165 903,320,948 1,025,719,237 991,087,371 1,117,513,071 1,226,562,446	\$1,729,397,006 1,857,680,610 1,714,066,116 1,547,135,194 1,539,508,130 1,662,331,612 1,847,531,984 1,924,171,791 2,244,424,266 2,310,937,156 2,285,040,349 2,445,860,916 2,451,914,642 2,636,074,737 2,970,426,946	\$39,564,614 202,875,686 *18,735,728 237,145,950 75,568,200 102,882,264 286,263,144 615,432,676 529,874,813 544,541,898 664,592,826 478,398,453 394,422,442 469,739,900 401,048,595 517,302,054
1908 1909 1910 1911 1912 1913 1914 1915	1,834,786,357 1,834,786,357 1,638,355,593 1,710,083,998 2,013,549,025 2,170,319,828 2,428,506,358 2,329,684,025 2,716,178,465 4,272,397,774	25,986,989 24,655,511 34,900,722 35,771,174 34,002,581 37,377,791 34,895,123 52,410,875 61,261,091	1,850,851,078 1,860,773,346 1,663,011,104 1,744,984,720 2,049,320,199 2,204,322,409 2,465,884,149 2,364,579,148 2,768,589,340 4,333,658,865	1,434,421,425 1,194,341,792 1,311,920,224 1,556,947,430 1,527,226,105 1,653,264,934 1,813,008,234 1,893,925,657 1,674,169,740 2,107,883,510	3,315,272,503 3,055,115,138 2,974,931,328 3,301,932,150 3,576,546,304 3,857,587,343 4,278,892,383 4,278,504,805 4,442,759,080 6,531,542,375	446,429,653 666,431,554 351,090,880 188,037,290 522,094,094 551,057,475 652,875,915 470,653,491 1,094,419,600 2,135,775,355

A deficit. During the Civil War and until 1874 there was an excess of imports over exports,

DEDCENTAGE OF MERCHANDISE IMPORTED INTO AND EXPORTED FROM THE INSTER CTATES

	1	ī			1	1		·	1	<u> </u>	1	1
Grand Division	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915
North America Expor	ts 50.32 ts 72.42 20.06 ts 16.08 ts 12.14 ts 3.47 ts 14.48 ts 4.12 2.05 ts 2.25 ts 95	48.39 67.23 20.33 17.16 13.49 3.75	68.82 19.19 17.68 11.45 4.31	52.10 69.03 18.37 18.60	50.91 68.99 20.00 17.45	49.88 68.96 19.36 18.61	51.76 65.10 19.69 22.09 12.59 5.34	50.30 63.84 20.00 22.30 11.96 5.32 13.98	49.57 60.87 20.20 23.45	49.25 59.98 19.96 25.04		36.70 71.22 28.26 17.23 15.61 3.59 14.80 4.13

GLASS AS A SUBSTITUTE FOR STEEL

effect upon them, nor can insects get into them and destroy

Near Frankfort, in Germany, there is a manufacturing plant which turns out glass poles for telephone and telegraph wires. In order to give them solidity and strength there is a thick framework of woven wire in the glass. These poles are taking the place of the wooden ones in many sections of Germany. It may be that in time all such telegraph and telephone poles throughout the world will be made of glass, because there are so many advantages in them. In the first place they will last practically for all time, except in cases of unusual accident, where they may be broken, as in railroad wrecks. They will last even longer than iron or steel, as weather has practically no effect upon them, nor can insects get into them and destroy

them.

And in these days, when wood is becoming more and more valuable, it will be quite a saving of the precious wood to make is one peak not many fathoms beneath the surface, which has such things of glass. Experiments are also under way for the

ESTIMATES OF ANNUAL CONSUMPTION IN THE UNITED STATES

(From the Latest Available Statistics)

Product Production *	Export of domestic	Domestic retained for consumption	Net imports	Total consumption	Domestic product exported
Corn (bu.)	10,725,819	2,436,262,181 617,789,651	12,290,498 1,630,952	2,448,552,679 619,420,603	.44 19.07
Wheat (bu.)	145,590,349 96,862,462	8,793,794,928	4,950, 0 28,070	019,420,003	17.01
(cane and beet) Cotton (bales)	9,256,028				65.45
Wool (lbs.)	335,348	289,856,652	246,444,034	536,300,686	
Coke (tons)	742,476	40,596,390	112,528	40,708,918	1.80
Coal, anthracite (tons) 81,718,680	3,959,114	77,759,566	8,124	77,767,690	4.84
Coal, soft (tons)	15,704,966	411,547,894	1,348,156	412,896,050	3.68
Pig Iron (tons)	201,995	30,764,157	136,046	30,900,203	.44
Railroad Bars (tons) 3,502,780	338,613	3,164,167	15.487	3,179,654	
Tin Plates (lbs.)	105,899,762	1,739,230,238	48.870,797	1.788,101,035	2.73
Flax seed (bu.)	305,546	17,547,454	8.653,235	26,200,689	
Coffee (lbs.)			† 1,006,362,294	992,550,993	
Coffee (lbs.). Tea (lbs.).			91,130,815		
Liquors (gai.)		2,233,430,012	7 18,830,133	2,252,272,765 §	
Pulp wood (cord)				4,328,052	

^{*} Does not include production of insular possessions. § 52,418,430 gallons of this amount are made up of wines. † Total imports.

AMERICA'S TWENTY BEST CUSTOMERS

The following table is arranged to show the twenty heaviest buyers of American goods, as indicated by the value of exports from the United States during the fiscal years 1914 and 1915.

To ·	1915	Value	To	1915	Value :	То	.1914	Value
1 Un	ted Kingdom	\$911.794.954	15	Argentina	\$ 32,549,606	7	Cuba\$	68.884.428
	nce			Germany				61,219,894
3 Car	nada	300,686,812		Brazil		9	Australasia	54.725.340
4 Ita	y	184,819,688		Greece		10	Japan	51,205,520
5 Ne	herlands	143,267,019		Belgium		11	Argentina	45,179,089
6 De	amark	79,824,478		Panama		12	Mexico	38,748,793
7 Sw	eden	78,273,818				13	Russia	31,303,149
	ba		To		Value	14	Spain	30,387,569
	ssia		1	United Kingdom	594,271,863	15	Brazil	29,963,914
10 Au	stralasia	51,986,649		Germany		16	China	24,698,734
11 Jap	an	41,517,780	3	Canada	344,716,981	17	Austria-Hungary	22,718,258
	rway			France		18	Panama	22,678,234
	in		5	Netherlands	112,215,673	19	British Africa	18,960,770
14 Me	xico	34,164,447	6	Italy	74,235,012	20	Chile	17,432,392

GROWTH IN IMPORTS AND EXPORTS OF GOLD ROMAN AND GREEK GODS AND GODDESSES

1800	\$ 12,94.	3,342 \$ 17,274,491	Koman	Greek	Divinity of
1900			Apollo	Apollon	The sun
1910	43.33		Aurora	Eos	The dawn
1912			Æolus	Æolus	The winds
1913	69.19		Bacchus	Dyonysus	Wine
1914			Bellona	Enyo	War
1015	171,56		Ceres	Demeter	Harvest
	494,00			Eros	Toyo
1910	, 494,00	9,301 90,249,340	Cybele	Rhea	Natura
			Diana	Artemis	The chase
GROWTH IN INI	PORTS AND EXPO	DTS OF SHIVER	Tuno	Hera	Heaven
			Jupiter	Zeus	Heaven
Year	Impo		Jupiter	Zeus	Heaven
	Impo	rts Exports	Jupiter	Zeus	Heaven War
	Impo \$ 21,03	rts Exports 2,984 \$ 34,873,929	Jupiter	Zeus Arcs Hermes	Heaven War
1890	Impo \$ 21,03 35,25	rts Exports 2,984 \$ 34,873,929 6,302 56,712,275 7,194 55,286,861	Jupiter. Mars. Mercury. Minerva. Neptune	Zeus	Heaven War Commerce Wisdom
1890. 1900. 1910.	Impo \$ 21,03 35,25 45,21	rts Exports 2,984 \$ 34,873,929 6,302 56,712,275 7,194 55,286,861	Jupiter. Mars. Mercury. Minerva. Neptune	Zeus	Heaven War Commerce Wisdom
1890 1900	Impo \$ 21,03 	Exports 2,984 \$ 34,873,929 6,302 56,712,275 7,194 55,286,861 0,219 64,890,665	Jupiter. Mars. Mercury. Minerva. Neptune Pluto	Zeus. Arcs. Hermes, Athena. Poseidon. Hades.	
1890. 1900. 1910. 1912. 1913. 1914.	Impo \$ 21,03 35,25 45,21 47,05 41,26 30,32	rts Exports 2,984 \$ 34,873,929 6,302 56,712,275 7,194 55,286,861 0,219 64,890,665 71,614,311 6,604 54,965,023	Jupiter Mars Mercury Minerva Neptune Pluto Saturn Venus	Zeus Arcs Hermes Athena Poseidon Hades Kronos Aphrodite	
1890. 1900. 1910. 1912. 1913. 1914. 1915.	Impo \$ 21,03 35,25 45,21 47,05 41,26 30,32 29,11	rts Exports 2,984 \$ 34,873,929 6,302 56,712,275 7,194 55,286,861 0,219 64,890,665 71,614,311 6,604 54,965,023	Jupiter Mars Mercury Minerva Neptune Pluto Saturn Venus	Zeus Arcs Hermes Athena Poseidon Hades Kronos Aphrodite	
1890. 1900. 1910. 1912. 1913. 1914.	Impo \$ 21,03 35,25 45,21 47,05 41,26 30,32 29,11	rts Exports 34,873,929 6,302 56,712,275 7,194 55,286,861 0,219 64,890,665 8,516 6,604 54,965,023 50,942,187	Jupiter Mars Mercury Minerva Neptune Pluto Saturn Venus Vesta	Zeus Arcs Hermes Athena Poseidon Kronos Kronos	Heaven War Commerce Wisdom Sea Lower world Agriculture Love

IMMIGRATION TO THE UNITED STATES

Year Total		,∕. S	ex	Ages			Debarred from	Returned within	Returned within	Able to	7711
ended June 30—	immi- grants	Male.	Female	Under 14 years	14 to 45 years	45 years and over	landing	1 year after landing	3 years after landing	read, but not write*	Unable to read or write*
1893 1894	314.467	315,845 186,247	187,072 128,220	†57,392 †41,755	‡419,701 ‡258,162		1,053 2,389	577 417		59,582 16,784	61,038
1895	279,948	159,924	120,024	†33,289	1233,543		2,394	189		2,612	41,614 42,302
1896	343,267	212,466	130,801	†52,741	1254,519		2,799	238		5,066	78,130
1897	230,832	135,107	95,725	†38,627	‡165,181	§27,024	1,617	263		1,572	43,008
1898 1899	229,299 311,715	135,775 195,277	93,524	†38,267	‡164,905		3,030	199		1,416	43,057
1900	448,572	304,148	116,438 144,424	43,983 54,624	248,187 370,382	19,545	3,798	263		1,022	60,446
1901	487,918	331.055	156,863	62,562	396,516		4,246 3,516	356 363		2,097	93,576
1902	648,743	466,369	182,374	74,063	539,254		4,974	465		3,058 2,917	117,587 162,188
1903	857,046	613,146	243,900	102,431	714,053		8,769	547		3,341	185,667
1904	812,870	549,100	263,770	109,150	657,155		7,994	300	479	3,953	168,903
1905	1,026,499	724,914	301,585	114,668	855,419		11,879	98	747	8,209	230,882
1906	1,100,735	764,463	336,272	136,273	913,955		12,371	61	615	4,755	265,068
1907	1,285,349	929,976	355,373		1,100,771	46,234	13,064	70	925	5,829	337,573
1908	782,870	506,912	275,958	112,148	630,671	40,051	10,902	114	1,955	2,310	172,293
1909	751,786	519,969	231,817	88,393	624,876		10,411	58	2,066	2,431	191,049
1910	1,041,570	736,038	305,532	120,509	868,310		24,270	23	2,672	4,571	253,569
1911 1912	878,587	570,057	308,530	117,837	714,709	46,041	22,349	9	2,779	2,930	182,273
1913	838, 172 1.197, 892	529,931 808,144	308.241	113,700	678,480		16,057	16 8	2,386	3,024	177,284
1914	1,218,480	789,747	389,748 419,733	147,158 158.621	986,355 981,692		19,938 33,041	30	3,374	5,326 3,074	269,988
1915	326,700	187,021	139,733	52,982	244,472		24,111	25	4,365 2,539	3,074	260,152
1916	298,826		116,597	1	1	1	18,867	2.3	1 .	. 1	35,057

*For the years prior to 1895 the figures are for persons over 16 years; for years succeeding 1895, for persons 14 years of age and over. †Under 15 years. ‡15 to 40 years. \$40 years and over. † Figures not available.

IMMIGRANTS ADMITTED (by race)

Years ended June 30					
Race or people	1914	1915	1916		
African (black)	8,447	5,660	4,576		
	7,785	932	964		
	9,928	1,651	642		
	15,084	3,506	3,146		
Chinese.	2,354	2,469	2,239		
Croatian, Slavonian.	37,284	1,942	791		
Cuban.	3,539	3,402	3,442		
Dalmatian, Bosnian, Herzegovinian.	5,149	305	114		
Dutch, Flemish. East Indian. English Finnish. French	12,566	6,675	6,443		
	172	82	80		
	51,746	38,662	36,168		
	12,805	3,472	5,649		
	18,166	12,635	19,518		
German	79.871	20,729	11,555		
Greek	45,881	15,187	26,792		
Hebrew	133,051	26,497	15,103		
Irish	33,898	23,503	20,636		
Italian (north)	44.802	10,660	4,905		
Italian (south) Japanese Korean Lithuanian	251,612	46,557	33,909		
	8,941	8,609	8,711		
	152	146	154		
	21,584	2,638	599		
Magyar. Mexican Pacific Islander. Polish. Portuguese.	44,538	3,604	981		
	13,089	10,993	17,198		
	1	6	5		
	122,657	9.065	4,502		
	9,647	4,376	12,208		
Roumanian Russian Ruthenian (Russniak)	24,070 44,957 36,727 36,053 18,997	1,200 4,459 2,933 24,263 14,310	953 4,858 1,365 19,172 13,515		
ScotchSlovak	25,819 11,064	2,069	577 9,259		

IMMIGRANTS ADMITTED (by race)—Continued

Race or people	1914	1915	1916
Spanish-American Syrian Turkish Welsh West Indian (except Cuban) Other peoples Total.		273 1,390 823 1,877	1,881 676 216 983 948 3,388 298,826
IMMIGRATION BY (GRAND	DIVISIO	NS
COUNTRY 191		1915	1916
Europe	,391 19	7,919	145,699
America	,675 11	1,206	137,424
		5,211	13,204
	,446	1,399	1,574
	,539	934	839
Not included above	136	31	31

ARRIVAL OF PASSENGERS AT PRINCIPAL

U. S. Citizen Returning	
New York 49,733	223,844
Philadelphia	356
Boston	14,800 228
Baltimore	17,883
Other Ports	231,567
Total U. S	488,678

PASSENGERS DEPARTING FROM UNITED STATES

	Sex		Portion occi	Total	
	Male	Female	Cabin	Steerage	Total
1914 1915 1916	402,162	154,383	250,715	520,120 305,830	

CONGRESSIONAL APPROPRIATIONS, 1911-1916

Appropriated—	1st and 2nd sessions 61st Congress 1911	3rd session 61st Congress 1912	1st and 2nd sessions 62nd Congress 1913	3rd session 62nd Congress 1914	1st and 2nd sessions 63d Congress 1915	3rd session 63d Congress 1916
To supply deficiencies for the service of the various branches of the Government	\$23,045,612.11	\$10,028,526.84	\$ 8,505,587.25	\$27,080,512.29	\$24,028,999.41	\$ 11,399,025.69
ment	34,158,767.00	35,378,149.85	34,245,356.75	35,172,434.50	37,630,781.37	36,904,799.75
For sundry civil expenses of the Government. For support of the army. For the naval service. For rivers and harbors. For forts and fortifications. For support of Military Academy.	106,015,198.82 95,440,567.55 131,410,568.30 9,266,528.00 49,380,541.50 5,617,200.00 1,856,249.87	93,374,755.97 126,405,509.24 8,842,136.37 30,883,419.00	102,538,934.40 90,958,712.98 123,151,538.76 8,920,970.66 40,559,620.50 4,036,235.00 1,064,668.26	5,218,250.00	103,080,275.74 101,019,212.50 144,868,716.61 9,771,902.76 26,989,000.00 5,627,700.00 997,899.54	122,940,750.79 101,959,195.87 149,661,864.88 9,325,455.00 33,982,000.00 6,060,216.69 1,069,813.37
For service of Post Office Depart-	Indefinite	Indefinite	Indefinite	Indefinite	Indefinite	Indefinite
For invalid and other pensions, in- cluding deficiencies	155,758,000.00 4,116,081.41	153,682,000.00 3,988,516.41	165,146,145.84 3,638,047.41	180,300,000.00 3,730,642.66	169,150,000.00 4,309,856.65	164,100,000.00 4,040,446.66
culture	13,487,636.00	16,900,016.00	16,648,168.00	17,986,945.00	19,865,832.00	22,971,782.00
For expenses of the District of Co- lumbia	10,608,045.99		10,675,833.50	11,383,739.00	12,171,457.00	11,859,584.45
For reclamation fund For reliefs and miscellaneous	20,020,000.00 3,544,798.29		7,292,359.03	445,197.22	14,985,991.29	2,402,923.34
Total	663,725,794.84	634,549,561.40	617,382,178.34	684,757,276.26	674,497,625.16	678,677,858.70

PUBLIC DEBT OF THE UNITED STATES FOR LAST DECADE

Year	Total interest- bearing debt	Debt on which in- terest has ceased	Debt bearing no interest *	Outstanding principal	Cash in the Treas- ury July 1 †	Total debt less cash in Treasury
1905	\$895,158,340	\$1,370,245	\$1,378,086,478	\$2,264,003,585	\$1,284,748,291	\$ 989,866,771
1906	895,159,140	1,128,135 -	1,440,874,563	2,274,615,063	1,372,726,152	964,435,686
1907	894,834,280	1,086,815	1,561,266,966	2,337,161,839	1,578,591,306	878.596.755
1908	897,503,990	4,130,015	1,725,172,266	2,457,188,061	1,688,673,862	938,132,409
1909	913,317,490	2,883,855	1,723,344,895	2,626,806,271	1,615,684,710	1,023,861,530
1910	913,317,490	2,124,895	1,737,223,452	2,639,546,241	1,606,216,652	1,046,449,185
1911	915,353,190	1,879,830	1,848,367,586	2,652,665,838	1,749,816,268	1.015,784,338
1912	963,776,770	1,760,450	1,902,836,653	2,765,600,606	1,840,799,176	1,027,574,697
1913	965,706,610	1,659,550	1,948,838,753	2,868,373,874	1,887,640,858	1.028.564.055
1914	967,953,310	1,552,560	1,942,993,398	2,912,499,269	1,885,242,259	1,027,257,009
1915	969,759,090	1,507,260	2,086,570,522	3,058,136,873	1,967,988,867	1,090,148,006

Includes certificates issued against gold, silver and currency deposited in the Treasury.
 † Containing legal-tender notes, gold and silver certificates, etc.

COIN AND PAPER CIECULATION IN THE UNITED STATES FOR LAST DECADE

Year ending June 30	Coin, including bullion in Treasury	United States notes and bank notes	Total money	Coin, bullion, and paper money in Treasury, as assets	Circulation	Population	Circula- tion per capita
1905	\$2,031,296,042	\$ 851,813,822	\$2,883,109,864	\$295,227,211	\$2,587,882,653	83,260,000	31.08
1906	2,154,797,215	915,179,376	3,069,976,591	333,329,963	2,736,646,628	84,662,000	32.32
1907	2,159,103,301	956,457,706	3,115,561,007	342,604,552	2,772,956,455	86,074,000	32.22
1908	2,328,767,087	1,049,996,933	3,378,764,020	340,748,532	3,038,015,488	87,496,000	34.72
1909	2,365,512,264	1,040,816,090	3,406,328,354	300,087,697	3,106,240,657	88,926,000	34.93
1910	2,355,807,734	1,063,783,749	3,419,591,483	317,235,878	3,102,355,605	90,363,000	34.33
1911	2,477,837,453	1,078,121,524	3,555,958,977	341,956,381	3,214,002,596	93,983,000	34.20
1912	2,554,125,643	1,094,745,008	3,648,870,651	364,357,557	3,284,513,094	95,656,000	34.34
1913	2,611,571,094	1,108,498,922	3,720,070,016	356,331,567	3,363,738,449	97,337,000	34.56
1914	2,638,496,956	1,099,791,915	3,738,288,871	336,273,444	3,402,015,427	99,027,000	34.35
1915	2,662,175,713	1,168,208,609	3,830,384,322	420,236,612	3,569,219,574	100,027,000	35.44

Note.—The Director of the Mint made a revised estimate of the stock of gold coin, and as a consequence, the estimated stock of gold in the United States and of gold coin in circulation has been reduced \$135,000,000 in the figures for 1907.

The Director of the Mint in 1910 made a revised estimate of the stock of subsidiary silver coin, and, as a consequence of such revision, there was a reduction of \$9,700,000.

RECEIPTS AND EXPENDITURES OF THE UNITED STATES

RECEIPTS AND THEIR SOURCES, 1911-1915

	,	7			
Source	1911	1912	1913	1914	1915
Customs revenue Internal revenue. Miscellaneous (net)	\$314,497,071 322,529,201 64,346,103	\$311,321,672 321,612,200 58,844,593	\$318,891,396 344,416,965 60,802,868	\$292,320,015 380,041,007 62,312,145	\$209,786,673 415,669,646 72,454,509
Ordinary receipts Public-debt receipts	701,372,375 58,334,725	691,778,465 53,726,749	724,111,230 23,400,850	734.673.167 23,021,222	697,910,828 22,486,955
Total receipts, exclusive of postal Postal revenues	759,707,100 237,879,824	745,505,214 246,744,016	747,512,080 266,619,526	757,694,389 287.934,566	720,397,783 287,248,165
Total receipts, including postal	997,586,924	992,249,230	1,014,131,606	1,045,628,955	1,007,645,948
DISBURSE	MENTS AND	THEIR OBJE	CTS, 1911—19	15	
Object	1911	. 1912	1913	1914	1915
Legislative	\$ 13,344,838	\$ 12,729,950	\$ 13,291,813	13,468,828	13,577,399
Executive: Executive, proper State. Treasury. War. Navy. Interior. Post Office. Agriculture. Commerce* Labor* Justice. Independent bureaus and offices. District of Columbia. Total Executive.	4,902,175 87,718,816 162,357,100 120,728,786 201,968,761 1,812,594 17,666,228 18,503,443 1,373,589 2,555,974 12,335,940	923,979 4,676,384 88,558,324 151,048,896 136,389,660 197,761,594 3,461,232 19,471,567 14,466,998 1,388,562 2,388,838 12,959,542 633,495,576	\$92,015 4,978,380 85,013,058 162,607,913 134,092,417 217,775,366 3,196,710 20,469,028 11,263,457 3,347,380 1,523,008 2,878,326 12,841,211	564,134 5,253,912 83,003,813 175,759,874 140,543,039 216,311,438 2,236,202 22,208,141 10,958,882 3,768,904 1,588,573 2,32,180 12,756,971 678,186,083	\$ 3,065,881 4,908,607 94,010,189 175,188,627 142,721,524 215,587,934 8,531,466 29,131,112 11,499,09 3,783,612 1,538,126 5,738,774 13,220,661
Judicial		8,328,437	8,900,564	8,599,579	8,896,746
Ordinary disbursements	654,137,998 37,063,515 35,223,337	654,553,963 35,327,371 28,648,328	682,770,706 41,741,258 24,191,610	700,254,490 34,826,942 26,961,327	731,399,759 29,187,042 17,253,491
Total, exclusive of postal paid from postal revenues	726,424,850 237,660,705	718,529,662 246,744,016	748,703,706 262,108,875	762,042,759 283,558,103	777.840,292 278,248,165
Total disbursements, including postal	964,085,555	965,273,678	1,010,812,449	1,045,600,862	1,065,088,457

^{*}Department of Commerce and Labor prior to March 4, 1913, when the Department of Labor was created.
†Issues of certificates and notes not affecting the cash in general fund are excluded from the public-debt figures in this statement.
‡Includes \$2,498.618 for relief etc., of American citizens in Europe.

RECAPITULATION 1913 1914 1915 1911 1912 1,045,628,955 1,045,600,862 1,007,645,948 1,065,088,457 \$992,249,230 965,273,678 \$1,014,131,606 1,010,812,449 \$997,586,924 964,085,555 (a) 57,442,509 28,093 3,319,157 33,501,369 26,975,552 Excess of Receipts..... 104,170,106 161,612,616 \$167,371,596 \$170,690,753 Balance in general fund at close of fiscal year \$140,396,044

⁽a) Excess of Disbursements

UNITED STATES CUSTOMS DUTIES

THE PRESENT TARIFF AND THE OLD COMPARED

Showing the Main Changes

Following are the present tariff rates on articles of common use or of extensive importation, placed by the Underwood-Simmons Act of 1913 compared with the rates placed by the Payne-Aldrich Act of 1909. Amounts given in dollars and cents are specific and the percentages are ad valorem duties. The abbreviation "n. s. p. f." means "not specially provided for."

	PAYNE LAW	PRESENT LAW	PAYNE LAW PRESENT LAW
Acids boracic	3c. lb	3/c. lb.	Caffein
boracic	7c. lb		Camphor, crude
lactic(cont. over 40%	by wgt.) 3c. lb	1 1/2 c. lb.	refined
salicylic		2½c. lb.	N. S. P. F
tartaric		3½c. lb.	Carpers
Agricultural Implements			Aubusson, Axminster, moquette, and Chenille60c. sq. yd. and 40%35%
Albums, photograph, auto	graph,		Brussels
scrap, stamp and postcard	35% \$2.60 gal	\$2.60 gal	tapestry Brussels28c. sq. yd. and 40%20%
		Free	velvet and tapestry. 40c. sq. yd. and 40%
Ale negter stout and heer	hottled		
		45c. gal.	Cartridges and shells, empty
Alkalies	4c. lb	3c. lb.	initial rugs 10c. sq. ft. and 40%. 50% Cartridges and shells, empty. 30%. 15% Cash registers. 30%. Free Castor beans. 25c. bu. 15c. bu. Cattle not one year old. \$2.00 per head. Free not worth over \$14 head. \$3.75 head. Free
shelled	DC ID	4c In	Cattle not one year old \$2.00 per head From
Aluminum, crude plates, bars, etc			not worth over \$14 head\$3.75 headFree
plates, bars, etc	11c. lb	3½c. lb.	Worth over the nead
Ammonia anhydrous		2½c, lb.	Chalk, ground 1c. lb 25%
carbonate of	1½c. lb		Cement, Portland and hydraulic 8c. 100 lb. Free Chalk, ground 1c. lb. 25 % Chamois skins 20% 15 %
plates, bars, etc. Amber. Ammonia, anhydrous. carbonate of. phosphate of. Aniline oil and salts	(new item)	10%	Champagne, etc., ½ to 1 pint
Aniline oil and salts	1c. lb	Free	Champagne, etc., ½ to 1 pint bottles. \$4.80 doz. \$4.80 doz. Cheese and its substitutes. 6c. lb. 20% Chloroform. 10c. lb. 2c. lb.
Anvils, iron or steel	1 5-8c. lb	15%	Chloroform
Apples, peaches, pears	Free.	20%	Chocolate, sweetened, worth over 35c. lb
Automobile bodies	45%	45%	worth over 24c. and not over 35c. lb
finished parts of	45%	30%	35c. lb
Apples, peaches, pears Attar of Roses. Automobile bodies. chassis. finished parts of. Automobiles, value under \$2 value over \$2,000	,000 45%	30%	Cider
value over \$2,000 Bags, baskets, belts, satchel	45%	45%	cheroots\$4.50 lb. & 25% \$4.50 lb. & 25% Cinnamon
Dags, Dasacts, Detts, Sateller	rtfolios		China, clay
(leather)	40%	30%	manufactured \$2.00 ton \$1.00 ton
Bags, or sacks, made of plain fabrics, or single jute yarr	ms. not		unmanufactured\$1.00 ton50c. ton Cloths, knit fabrics, felts not woven,
colored, etc7-	8c. lb. and 15%	10%	and manufactures chiefly of wool.
Balsams, crude	30c hu	15c bu	N. S. P. F. (valued not over 40c. lb.) 33c. lb. & 50%35%
Rast Pum	\$1.75 cal	\$1.75 001	
Beads, spangles		35%	Coal bituminous and shale 45c ton E-co
Beans and peas, prepared	2½c. lb	1c. lb.	Coal tar dyes 30%. ‡5c. per lb. & 30% Coal tar products ‡Free
Beef, veal, lamb, pork (fresh))1½c. lb	Free	Coca leaves
Beans and peas, prepared. Beef, veal, lamb, pork (fresh Beets, sugar (seed). Berries, in natural state. Bibles. Bicycles.		½c. at.	10c. 15c.
Bibles	25%	Free	Cod liver oil
Bicycles Blacking Blankets, wool33c. lb. ar Blasting Caps Books Boots and shoes of cattle skin Borax, refined. Brandy Bread, biscuit. Briar root and similar wood.	25%	15%	Coke. 20% Free Combs, of horn or horn and metal 50% 25% Copper wares 45% 20% Cordial lies 2
Blankets, wool 33c. lb. ar	nd 50% average	25%	Copper wares
Blasting Caps	\$2.25 per M	\$1.00 per M	Cordials, figuretis, absining, and
Boots and shoes of cattle skin	n	Free	spirituous beverages or bit- ters\$2.60 pf. gal\$2.60 pf. gal.
Borax, refined	2c. lb	1-8c. lb.	Cornmeal 40c. 100 lbs. Free Cotton bagging, gunny cloth, etc. 6-10c. sq. yd. Free Cotton waste Free Free Court. Plaster
Bread, biscuit	\$2.00 gal	Free	Cotton bagging, gunny cloth, etc. 6-10c. sq. yd Free
Briar root and similar wood. Brooms	15%	10%	Court-Plaster 25% 1507
- Kruches teather dusters an	d hair		Court-Plaster 25% 15% Cranberries 25% 10% Crayons, charcoal 30% 15% Cream, fresh 5c, gal Free Cream, fresh 5c, gal Free Currants 2c, lb 1½c, lb.
pencils	40%	35%	Cream, fresh
Buckwheat	15c. bu	Free	Cream separators \$75 or under15%
flourButter and its substitutes	6c. lb	2½c. lb.	Curtains, table covers, cotton tapes-
Cabbages	2c. ea	15%	tries, and Jacquard unholsters
* w. o. 20c. lb).		goods50%350/
			† (worth 20c. lb. or less.) ‡ Revenue act Sept. 5, 1916

Damasks and woven articles of flax, hemp, ramie, etc	PRESENT LAW	PAYNE LAW	
Damasks and woven articles of flax,		Glass, silvered and looking-glass plates,	
hemp, ramie, etc45%		over 144 sq. in. and not over 384 sq. in 11c. sq. ft	
Dates	1c. lb.	lic ea ft	To an it
Demijohns and Carboys	30%	above 384 sq. in. and not over 720 sq. in. above 720 sq. in. 13c. sq. ft above 720 sq. in. 25c. sq. ft Stained or painted windows not exceed ing 144 sq. in. 45% Glue (10c.) 2½c. lb (10c. to 35c.) 25% Glycerin, crude. 1c. lb refined 3c. lb Gold leaf 35c. 100 leav Grapes in packages 25c. cu. ft Grindstones \$1.75 ton	/c. sq. it
Diamonds, cut but not set	20%	13c on ft	On an th
and other precious stones in the		above 720 sq. in 25c. sq. it	9c. sq. it
roughFree		Stained or painted windows not exceed	13c. sq. II
Dice, dominoes, checkers, chess,		ing 144 sq in	200
pieces, poker chips, pool, billiard,		Glue (10c.)	1- 11-
etc50%	50%	(10c to 35c) 250/	
Dolls and toys	35%	(100, 10 330.) 25%	(100 to 250) 150
Drugs, barks, etc	10%	Glycerin, crude to the	(100. to 230.) 13%
Eggs, frozen	2c. lb.	refined 3c lb	20 lb
other eggs5c. doz	Free	Gold leaf 35c 100 leave	250
Emery wheels, paper and files25%	20%	Grapes in packages 25c. cu. ft. Grindstones \$1.75 ton Gum arabic. Free Gunpowder and Explosives. Value over 20c. lb	750 00 84
Engravings25%		Grindstones \$1.75 ton	\$1.50 to
Etchings		Gum arabic Free	1/0 lb
Fans, all kinds except palm50%	50%	Gunnowder and Explosives Value	
Feathers, artificial leaves, flowers, etc 60%	60%	over 20c. lb.	Francis
Feathers and downs, dressed60%	40%	value 20c. lb. or less 2c. lb.	Free
not dressed	20%	Hair, drawn, human 2007	2007
Figs	2c. lb.	raw, human	100
Filberts, not shelled	2c. lb.	Haircloth (Cripoline) 8c sq vd	60.00.00
shelled	4c. lb.	Handkerchiefs of flax hemp etc.	oc. sq. yu
Files	25%	hemstitched 5507	AD 07
Filter tubes	30%	flax hemp, etc. not hammed 500%	2507
Firebrick, glazed		silk or mufflers hemstitched 6007	500
unglazed\$1,25 ton	10%	Harness and saddlery 350%	Fran
Firecrackers8c. lb	6c. Jb.	Hav \$4.00 ton	\$2.00 ton
Fishhooks, rods, tackle, except lines.		Hemp, not backled \$22.50 ton	Free
nets and seines	30%	hackled \$45.00 ton	From
Flax. hackled	Free	Honey 20c gal	10c gal
not hackled	Free	Hooks and eyes, metallic 4 1/4c. & 15%	150%
tow of	Free	Horn manufactures 35%	2007
Floral Waters	20%	Horses and mules, worth \$150.00	/(
Formaldehyde	1c. lb.	a head or less\$30.00 a hea	d10%
Fruit, evaporated	1c. lb.	worth over \$150.00 a head	10%
tow of \$20.00 ton. Floral Waters 20%. Formaldehyde New item. Fruit, evaporated 2c. lb. Fuller's earth \$1.50 ton. manufactured \$3.00 ton. Furs dressed on skin 20%. Furs and fur skins, not dressed Free. Game birds Free. Game birds 40%.	75c. ton	Ink	15%
manufactured\$3.00 ton	\$1.50 ton	Instruments, Surveying	25%
Furs dressed on skin	30%	Iodine20c. lb.	Free
Furs and fur skins, not dressed Free	Free	Iodoform	15c. lb.
Game birdsFree	30%	Iron bar	5%
Gas mantles	25%	beams and other structural shapes	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Gelatin (not over 10c, lb.) 2 1/c, lb		of iron or steel3-10c. lb.	10%
Ginger ale and soda water in 1/2		boiler plate (value 8-10c, lb, or less) 3-10c, lb.	12%
pints	12c. doz.	ore	Free
Glass bottles 60%	45%	pig\$2.50 ton	Free
manufactures of N. S. P. F	30%	scrap\$1.00 ton	Free
unpolished cylinder, crown and	(, , , , , , , , , , , , , , , , , , ,	sheet	12%
common window, pieces not ex-		tubes, pipes and flues	
ceeding 150 sq. in.		Fron or steel bands	
(worth over 136c, lb.) 1 3-8c, lb		bolts	
above 150 not exceeding 384 sq. in.		Isinglass	
(worth over 13/c, lb) 1 7-8c, lb	1c. lb.	Ivory or vegetable ivory manufac-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Furs and fur skins, not dressed. Free. Game birds. Free. Gas mantles		Hemp, not hackled	35%
(worth over 2 1-8c lb.) 2 3-8c lb	: 1 1-8c. lb.	Ivory tusks, natural state	20%
above 720 not exceeding 864 sq. in 23/c. lb	1 1/c. lb.	Tellies, all kinds	20%
above 864 not exceeding 1200 sq.		Jewelry	60%
in 3½c lh	1 1/2c. lb.	Laudanum40%	60%
above 1200, not exceeding 2400 sq.		Lead bullion, dross or pigs 2 1-8c. lb.	25%
in 33/c lb	1 7-8c. lb.	nitrate of	
shove 2400 sq. in	2c. lb.	sheet	25 %
polished cylinder and crown glass.		Lenses, glass	25 %
pieces not exceeding 384 sq. in.		Licorice, extracts of	1c. lb.
4c. sq. ft	3c. sq. ft.	Lime	5%
above 384, not exceeding 720 sq. in.		Linoleum over 9 ft. wide 12c. sq. yd. & 15%	
6 c. sq. ft	4c. sq. ft.	Linotype machines	Free
shows 720 not exceeding 1440 sq. in.		Lumber, sawed\$1.25 M. ft.	Free
12c sq. ft		Macaroni	1c. lb.
above 720, not exceeding 1440 sq. in. 12c. sq. ft above 1440 sq. in	10c, sq. ft.	Magnesia, carbonate of	
polished plate pieces not exceed-		Mahogany and other cabinet woods,	
ing 384 sq. in 10c sq. ft.	6c. sq. ft.	sawed15%	
above 384 not exceeding 720 sq. in.		Malt, barley	
above 1440 sq. in	8c, sq. ft.	Marble, dressed over 2" thick \$1 cu. ft.	75c. cu. ft.
chove 720 sq. in 22 1/c. sq. ft	12c, sq. ft	rough	50c. cu. ft.
rough plate (weighing 100 lbs per 100	nd. so.	paying tiles not over 1" thick 8c. ft.	6c. ft.
og ft or less) pieces not exceeding		Maps25%	
294 ng in 3/c ag ft	1/2c. sq. ft.	nitrate of 2 Ac. 10. sheet 2 3.8c. lb. Lenses, glass 45% Licorice, extracts of 2 Ac. 1b. Lime. 5c. 100 lbs Linoleum over 9 ft. wide. 12c. sq. yd. & 15% Linoleum over 9 ft. wide. 12c. sq. yd. & 15% Linoleum over 9 ft. wide. 12c. sq. yd. & 15% Linoleum over 9 ft. wide. 12c. sq. yd. & 15% Linoleum over 9 ft. wide. 12c. sq. yd. & 15% Macaroni 12/4c. lb Magnesia, carbonate of 3c. lb. Mahogany and other cabinet woods, sawed. 15% Malt, barley 45c. bu. Marble, dressed over 2" thick. 51 cu. ft. rough 5cc. cu. ft. paving tiles not over 1" thick. 8c. ft. Maps. 25% Matches, in boxes containing 100 or	
phone 384 not exceeding 720 sq. in		Matches, in boxes containing 100 or	
above sor, not exceeding rate square.	1c. sq. ft.	less	
12 ½c. sq. ft above 720 sq. in	1c. sq. ft.	Matches, in boxes containing 100 or less	3-8c. per M.
Shows 170 ad. m			

Matches, wind PAYNE LAW Microscopes 45 % Milk, condensed 2c. lb. fresh 2c. gal. Mineral waters ½pint or less 20c. doz. Molasses (average) dutiable. To May 1, 1916 3c. gal. After May 1, 1916 45 % Morphine \$1.50 oz. Motorcycles 45 % Musical instruments, pianoforte actions and metal strings for same 45 % Mustard 10c. lb.	PRESENT LAW	PAYNE LAW	PRESENT LAW
Matches wind 35%	25%	Plaster of Paris manufactures	
Milliones, Williams AE Of	2507	Plactors booling or curative 25%	15%
Wilcroscopes4370	20 /0	Diasters, meaning of curactive	
Milk, condensed	rree	Plates, steel, engraved, stereotype	
fresh	Free	Plasters, healing or curative	
Mineral meters I/pint or less 20c dez	10c doz	stone lithographic 50%	25%
Militeral waters /2pint of iess		Distinguished AFO7	5007
Molasses (average) dutiable. 10	The same of the same	Platinum wares	600
May 1, 19163c. gal	2 1/4 c. gal.	Playing cards10c. pack & 20%	
After May 1 1916	Free	Porch and window blinds of bamboo, etc.35%.	20%
After May 1, 1720	6 2.00 on	Potech high-amorta of 21/c lb	I/c lb
Morphine		Potatoes	F
Motorcycles45%	25%		
Musical instruments, pianoforte ac-		from countries imposing duty on	
tions and motal atrinon for come A507	250%	American potatoes 25c his	10%
tions and metal strings for same45 /0	6- 1h	D. It J	20 16
Mustard10c. lb	OC. ID.	Poultry, preserved	ZC. ID.
Nets and nettings	60%	live3c. lb	
Nickel sheets or strips 35%	20%	Powders, bleaching	1-10c. lb.
AEOT	2001	poliching 2507	1507
wares4570	20 70	polisumg	4 7 07
Nippers and pliers	30%	Printing presses	13 70
Nutmegs, ungroundFree	1c. lb.	Prints, lithographic not over 8-1000"	
Musical instruments, pianolorte actions and metal strings for same. 45%. Mustard. 10c. lb. Nets and nettings. 60%. Nickel sheets or strips. 35%. wares. 45%. Nippers and pliers. 8c. lb. & 40%. Nutmegs, unground. Free. Oatmeal and rolled oats. 1c. lb. 30 Oats. 15c. bu. Oil castor. 35c. gal.	c. per 100 lbs.	from countries imposing duty on American potatoes	15c. lb.
O-4-	6c hu	Prunes 2c lb	1c lb
Vats		Fruncs	4000
Oil, castor	12c. gal.	Quicksilver/c. ID	
Flaxseed and linseed	10c. gal.	Ouill manufactures	20%
olive in bottles less than 5 gal	1	Onilts of down and down goods 60%	40%
Oil, castor 35c. gal. Flaxseed and linseed 15c. gal. olive in bottles less than 5 gal. capacity 50c. gal.	30c col	Ouinees charries plums	100 h
capacity	soc. gai.	Quinces, enernes, piums,23c. pp	Ioc. Du.
other olive	ZUc. gal.	Kaisins	
other olive		Trick	
less) 6c. sq. yd. & 15%	2007	Ribbons, hatbands, tassels, garters, suspenders, etc., silk	70
less) 6c. sq. yd. & 15% Onions	200 1	and and an at a sills	1501
Onions40c. bu	zuc. bu.	suspenders, etc., snk	45%
Onyx, rough	50c. cu. ft.	velvet and plush\$1.75 lb. average	50%
Opera and field glasses		Rice, cleaned	1c. lb.
Opium Crude \$1 50 lb	\$3.00.1b	uncleaned 11/c lb	5 8c lb
Opium, Crude	#4 00 Th	D.LL. T. J	
dned		Rubber, India, manufactures known	
smoking	Prohibited	as druggists' goods	15%
Paints artists' colors	20%	India, manufactures and gutta	
anamal 3507	150%	percha (N S P E)	1007
The state of the s		Continue (11. O. I. P.)	10%
Paintings, oil or water colors, pas-		Saccharin	Ib.
tels, pen and ink drawings	15%	Safety fuses	15%
Paper, conving, stereotype, tissue,		Saffron	10%
crops pottery etc. 5c lb & 150%	30.0%	Salt in bage and packages 11c 100 lbs	E
on the second	0507	Rubber, India, manufactures known as druggists' goods	r ree
parchmentzc. ib. & 10%	43%	Saits, Epsom1-5c. lb	1-10c. lb.
photographic3c. lb. & 10%		Rochelle	2 ½c. lb.
pressboards or press	25%	Saws circular 20%	1207
enamel		construction for the line of fact	***************************************
printing, sizeu, unsizeu, etc.,	44.000	cross-cut	12%
value over Sc. Ib		dragoc. per linear foot,	12 %
under 5c. lb		band and other	1207
surface-coated 5c lb	3507	steel hand 5c nor lb and 2007	1207
Surface-Coated,	0507	C-1-to and 2070.	14 %
wrapping, with decorated surface . 4, 2c. 1b		Sculptures, professional productions	
writing letter, note, drawing,		of sculptors only	Free
ianan ledger and hand 3c lb & 15%	25%	Seeds, beet 4c lb	3c lb
Dana hangings with paper hook 2507	9 E 07	cabbage and kale	
Paper hangings with paper back23%		cabbage and kaleoc. ib	oc. lb.
Papier-mache manufactures	25%	eggpiant and pepper	10c. lb.
Peanuts, shelled	3/4c. lb.	flaxseed	20c. bu
unchelled 46c lb	3-8c lb	radish and turnin 4c lb	3c 1b
Dearl mother of and shall many		Sewing machines	
Pearl, mother of, and shell manu-		Characteristics	<u>r</u> ree
factures35%		Sheep over 1 year old	· · · · · Free
Peas in cartons	1-3c. lb.	not I year old	Free
green or dried 25c bu	10c bu	Shingles 50c M	Erec
enlit 450 hu	200 bu	Shells engraved etc	Free
april. 1	ZUC. DU.	Shirts college 45 d ou for 'f	
Penchs, lead, of paper or wood. 43c. gr. & 25%	gr.	Builts, could's that cuits of cotton	
slate(wood covered) 35%		Salts, Epsom. 1-5c. lb. Rochelle 3c. lb. Saws, circular 20% cross-cut 5c. per linear foot, drag 6c. per linear foot, hand and other 25%, steel band 5c. per lb. and 20%. Sculptures, professional productions of sculptors only 15%. Seeds, beet 4c. lb. cabbage and kale 8c. lb. eggplant and pepper 20c. lb. flaxseed 25c. bu. radish and turnip 4c. lb. Sewing machines 30%. Sheep over 1 year old 5.50 head. not 1 year old 75c. head. Shingles 50c. M. Shells, engraved, etc. 35%. Shirts, collars trid cuffs of cotton wholly and partly lines 40c. doz. & 20%. Silk, partially manufactured from cocoons or waste 35c. lb.	300
Pens, fountain	25%	wholly and partly linen. 40c. doz. & 20%	3007
gold	2507	Silk partially manufactured from	
Described and white an arranged To	1-170	coccess on marks	
report, plack and white, unground Free		COCCOURS OF WASIE	
Take the second of the second			,20c, lb.
Percussion caps30%	15%	spun	
Percussion caps	15%	spun	,20c. lb.
Percussion caps	40c & 600°	spun	35 %
Perfumery (containing alcohol)		spun. 35c. lb. Silver leaf. 10c. 100 leaves. wares. 45%. Slates and manufactures of the sand manufactures of the s	35%
Percussion caps		spun 35c. lb. Silver leaf. 10c. 100 leaves. wares. 45 % Slates and manufactures of 20 %	,20c. lb35 %30 %50 %50 %
wrapping with decorated surface 4) c.lb. writing letter, note, drawing, japan, ledger and bond 3c.lb. & 15%. Paper hangings with paper back 25% Papier-maché manufactures 35%. Peanuts, shelled 1c.lb. unshelled 1c.lb. unshelled 1c.lb. grearl, mother of, and shell manufactures 35%. Peas in cartons 1c.lb. green or dried 25c. bu. split 45c. bu. Pencils, lead, of paper or wood 45c. gr. & 25%. slate. (wood covered) 35%. Pens, fountain 30%. gold 25%. gold 25%. Pepper, black and white, unground Free Percussion cape 30%. Perfumery (containing alcohol) 60c.lb. & 50%. Pewter wares 45%.		spun. 35c. lb. Silver leaf. 10c. 100 leaves. wares. 45%. Slates and manufactures of 20%. Soap, castile 1½c. lb.	,20c. lb35 %30 %50 %10 %
Percussion caps 30% Perfumery (containing alcohol) 60c. lb. & 50%. Pewter wares 45%. Phonographs, gramophones 45%. Photographic dry plates 25%.		Spun 35c. lb	,20c, 1b ,35 % ,30 % ,50 % ,10 % ,10 %
Perfusery (containing alcohol) Pewter wares Pehonographs, gramophones 45% Photographic dry plates 25% film negatives for moving nictures 25%		Silver leaf	35 % 30 % 50 % 10 % 10 %
Photographic dry plates	15%	Silver leaf	35 % 30 % 50 % 10 % 10 %
Photographic dry plates	15%	Silver leaf	35 % 30 % 50 % 10 % 10 %
Photographic dry plates	15%	Silver leaf	35 % 30 % 50 % 10 % 10 %
Photographic dry plates	15%	Silver leaf	35 % 30 % 50 % 10 % 10 %
Photographic dry plates	15%	Silver leaf	35 % 30 % 50 % 10 % 10 %
Photographic dry plates	15%	Silver leaf	35 % 30 % 50 % 10 % 10 %
Photographic dry plates	15%	Silver leaf	35 % 30 % 50 % 10 % 10 %
Photographic dry plates	15%	Silver leaf	35 % 30 % 50 % 10 % 10 %
Photographic dry plates	15%	Silver leaf. 10c 100 leaves.	35% 30% 50% 10% 10% 20% 30% 5% ½c. lb 1-8c. lb
Photographic dry plates	15%	Silver leaf. 10c 100 leaves.	35% 30% 50% 10% 10% 20% 30% 5% ½c. lb 1-8c. lb
Photographic dry plates	15%	Silver leaf. 10c 100 leaves.	35% 30% 50% 10% 10% 20% 30% 5% ½c. lb 1-8c. lb
Photographic dry plates	15%	Silver leaf. 10c 100 leaves.	35% 30% 50% 10% 10% 20% 30% 5% ½c. lb 1-8c. lb
Photographic dry plates	15%	Silver leaf. 10c 100 leaves.	35% 30% 50% 10% 10% 20% 30% 5% ½c. lb 1-8c. lb
Photographic dry plates 25% film negatives for moving pictures 25% film negatives for moving pictures 25% Photographs 25% Pickles and sauces 40% Pineapples in bulk \$8.00 per M not in bulk 8c. cu. ft. in own juice 25% Pins, including hair, hat, etc. 35% Pipe, cast iron 4c. bb. meerschaum, crude Free tobacco, and bowls, of clay 15c. gross of other material, cigarette books, tobacco pouches cigarette paper	25% 2c. ft. 15% 2c. ft. 25% \$5 per M 6c. cu. ft. 20% 10% 20% 22% 25%	Silver leaf. 10c 100 leaves.	35% 30% 50% 10% 10% 20% 30% 5% ½c. lb 1-8c. lb
Percussion caps. 30%. Perfumery (containing alcohol) 60c. lb. & 50%. Pewter wares 45%. Phonographs, gramophones 45%. Photographs 25%. film negatives for moving pictures 25%. Flotographs 25%. Photographs 25%. Pickles and sauces 40%. Pineapples in bulk 88.00 per M. not in bulk 8c. cu. ft. in own juice 25%. Pins, including hair, hat, etc 35%. Pipe, cast iron 4c. 155%. Pipe, cast iron 5c. 16c. 16c. 16c. 16c. 16c. 16c. 16c. 16	25% 2c. ft. 15% 2c. ft. 25% \$5 per M 6c. cu. ft. 20% 10% 20% 22% 25%	Silver leaf	35% 30% 50% 10% 10% 20% 30% 5% ½c. lb 1-8c. lb

Sticks and cones PAYNE LAW PRESENT LAW	PAYNE LAW PRESENT LAW
Sticks and canes. 40% 30% Stockings. cotton 30% 20% Stockings, cotton 20%	Type metal
Stone freestone granite condetone	Typewriters
Stone, freestone, granite, sandstone, and other building or monument stone dressed	Umbrellas, parasols, etc., not paper, lace or embroidered. 50% 35%
stone dressed	lace or embroidered50% 35%
freestone, granite, sandstone, and	Utensils, table, kitchen and hospital 40%
other building or monument	Vanilla beansFree30c. lb.
stone not dressed 10c cm ft 20 m ft	varnisnes
Straw	Vegetables, cut or pickled40%25%
Sugar, not above 75 degrees 05 100c lb 75 400 H	Velvets, plushes, chenilles or other
Sugar, not above 75 degrees, 95-100c. lb75-100c. lb. Other degrees of quality receive	Dile Iantics St. 75 lb average Engl
a proportionate rate.	Vermuth and still wine containing under 14% alcohol or less45c. gal45c. gal.
candy and confectionery worth	under 14% alcohol or less45c. gal45c. gal.
15c. lb. or less4c. lb. & 15%2c. lb.	VIDEFAT. 7 I/O gol ' 4
candy and confectionery worth	Walnuts, shelled
over 15c. lb	not shelled
cane	watch cases and parts. 40%
grape or glucose	
maple	movements\$1.35 each average30%
Sumac, extracts of	Whalebone, manufactures. 35% 20% Wheat. 25c. bu. Free
Talcum powder 60% 15% Tartar, cream of 5c. lb 2½c. lb Telescopes 45% 25% Tile mantels, etc 60% 30%	flour
Tartar, cream of	Wheels, railway 1½c. lb. 20%
Telescopes	Willow hasketmakers' 2507 1007
Tile mantels, etc	Willow, basketmakers' 25% 10% Wires, telegraph and telephone 40% 15%
liles, ornamented &c. sq. it. to luc. sq. it.	Woods, unmanufactured (N S
	Woods, unmanufactured (N. S. P. F.). 20%. Free
plain exceeding 2 sq. in. in size. 4c. sq. ft 1 1/2c. sq. ft.	Wood veneers
Tinsel wire	Wool, combed or tops24 1/4c. lb. & 30%8%
Tobacco snuff and snuff flour55c. lb55c. lb.	Yarns, wholly or chiefly wool. Note:
scrap	new rate applies to all yarns. Old
wrapper, stemmed\$2.50 lb\$2.50 lb. wrapper and filler, unstemmed\$1.85 lb\$1.85 lb.	rate to yarns valued not over
	30c. lb
Tools, machine	Zinc in blocks or pigs and zinc dust . 1 3-8c. lb
	in sheets
Towels, quilts, blankets, mops, sheets, etc., cotton	wares
Sheets, etc., collog	

SYNOPSIS OF TARIFF LEGISLATION SINCE 1888

Mills Bill—Presented to 50th congress during Cleveland's first administration: provided for free lumber and wool, reduction on pig iron and abolition of specific duties on cotton; passed

tion on pig iron and abolition of specific duties on cotton; passed by house July 21, 1888, by vote of 162 to 149, but failed in senate; house democratic, senate republican.

McKinley Bill—Passed by 51st congress during Benjamin Harrison's administration; became law Oct. 6; 1890; high protective measure, though remitting duties on sugar and providing for reciprocity treaties; both houses of congress republican.

Wiles Bill—Passed by 621

wilson Bill—Passed by 53d congress during Cleveland's second administration; became law Aug. 17, 1894, without the president's signature; both houses democratic; measure reduced duties in some cases and made additions to free list, notably

Dingley Bill—Passed by 54th congress during McKinley's administration; approved July 24, 1897; passed by house 205 yeas to 122 nays, 27 members not voting; passed by senate 38 yeas to 28 nays, 23 not voting; house contained 206 re-

publicans and 134 democrats and senate 46 republicans and 34 democrats: measure raised rates to produce more revenue, but was similar in many respects to the McKinley act.

Payne-Aldrich Bill—Passed at extra session of 61st congress in first year of President William H. Taft's administration: approved Aug. 5, 1909: passed the house by a vote of 217 to 161. and the senate by a vote of 45 to 34. The conference vote in the house was 195 yeas to 183 nays, twenty republicans voting in the negative and two democrats in the affirmative. In the senate the vote on the final conference report was 47 to 31, seven republicans voting against it. In general the revision of the Dingley act was in the direction of lower duties, but there were some increases. were some increases.

Underwood-Simmons Bill—Passed by 63d congress at extra session called immediately after President Wilson's inauguration in 1913; house and senate democratic. The bill made many reductions in the tariff duties as fixed by the Payne-Aldrich law and placed numerous articles on the free list. It also contained

a section establishing a tax on incomes.

FULLER'S EARTH

Fuller's earth was discovered in Florida in 1893 through mere Fuller's earth was discovered in Florida in 1893 through mere accident. An effort was made to burn brick on the property of the Owl Cigar Co., near Quincy; the effort failed, but an employee of the company called attention to the close resemblance of the clay used to the German fuller's earth. Florida is now the leading State in the production of fuller's earth.

SOME FACTS ABOUT LIMESTONE

A ton of absolutely pure limestone would burn to a little over half its weight of lime, or about 1,120 pounds, which, counting 80 pounds to a bushel, would give 14 bushels of lime to a ton. The weight of the burned product, however, generally averages more than this, owing to impurities in the limestone and also because in ordinary kilns the combustion is not complete enough to drive off all the carbon dioxide.

A cubic foot of limestone averages in weight from 145 to 175 pounds, which would make a ton of limestone contain from 11 to 14 cubic feet.

A CURIOUS MINERAL

Perhaps the most curious mineral found in the United States is staurolite, otherwise known as the "fairy stone." This is an iron-aluminum silicate found only in Virginia and North Carolina, the reddish-brown and brownish-black crystals occurring in well-defined single and double crosses. There is some commercial demand for the crosses as curios, which are worn as watch charms or on chains in the manner of a locket or lavaliere—a demand perhaps stimulated by the quaint legend which is told of their origin; the fairies living in the caves of the mountains, on hearing the sad tidings of the death of Christ, fashioned these crosses as mementos of Him. these crosses as mementos of Him.

POSTAL REGULATIONS

DOMESTIC MAIL

Domestic postage rates apply to all mail transmitted between points in the United States and its possessions, to and from the United States postal agency at Shanghai, to United States navy men in our Naval Hospital at Yokohama; to letters only addressed to Great Britain, Ireland, Newfoundland, the Bahamas, Barbados, British Guiana British Honduras, Leeward Islands; Dutch West Indies including Aruba, Bonaire, Curacao, Saba, St. Eustatius, St. Martins; letters to Germany via steamers sailing to Germany ports direct. With certain exceptions domestic rates apply to mail addressed to Canada, Cuba, Mexico and the Republic of Panama.

Prepayment of postage is required.

Letters and reading maguer for the blind are transmissible under

Letters and reading matter for the blind are transmissible under certain conditions at special rates, which may be ascertained

from the postmaster.

Husband or wife. Neither husband nor wife can control the delivery of mail addressed to the other against the wishes of the one to whom it is addressed. In the absence of instructions to the contrary, the wife's letters will be placed in the husband's box and delivered to him with his letters, unless they be known

to live separately.

Minors. The delivery of mail addressed to a minor is subject to the orders of the parent or guardian upon whom the

ject to the orders of the parent or guardian upon whom the minor is dependent.

Lists of Names or Other Information. Postmasters and all others in the postal service are forbidden to furnish lists of names of persons receiving mail at their offices or give information as to the addresses, character, or standing of patrons.

Unmailable matter includes all matter having defective address, overweight or oversize, hamful in its nature, poisonous, explosive, inflammable, obscene, intended for indecent or immoral purpose, tending to incite arson or murder; bearing on outside cover defamatory, dunning or indecent language; unprepaid; concerning lotteries or for the purpose of obtaining money under false preteness; producing a bad odor; unwrapped post cards bearing particles of mica, glass, tinsel or similar substances; game killed or offered for mailing in violation of law, meat without certificate of inspection or exemption, nursery stock without certificate of inspection; live animals, fowls, insects, reptiles, intoxicating liquors.

stock without certificate of inspection; live animals, fowls, insects, reptiles, intoxicating liquors.

Postage stamps are issued in 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 15, 20, 30, 50-cent and 1-dollar denominations and 10-cent special delivery. In smaller post-offices only those for which there is a demand are kept on sale. Stamps are issued in perforated or unperforated sheets, in coils of 500 and 1,000 perforated or unperforated, in books, and embossed on envelopes. When stamps are so affixed to mail that one overlies the other, correctly near to fit surface the covered stamp is not taken

Copyright. Matter for copyright deposited with a postmaster and contents may bear written name and address of sender and for transmission to the Register of Copyrights, Washington, addressee, the words "sample copy" or "marked copy," but D. C., will be accepted for mailing free of postage; and when other writing subjects the package to first-class rate

requested a receipt therefor will be given on a form furnished

requested a receipt therefor will be given on a form furnished by the sender. Such matter, however, may not be sent by registered mail without prepayment of the registry fee.

Alaska. All classes of mail for Alaska are dispatched from Seattle, Washington, during the season of navigation. During the winter season (from about October 1 to June 1), the dispatch of mail for Alaska, except for offices on the southern coast, is limited, preference being given first, to letters and postal cards; second, to single newspapers and magazines addressed to public libraries, newspapers and periodicals sent to dealers for purpose of trade or otherwise, and merchandise (parcel post matter), can not be forwarded to interior offices during the winter season. But when the weight limit of mail for dispatch will permit, packages of seeds, not exceeding one for dispatch will permit, packages of seeds, not exceeding one pound per package, and articles of merchandise, not exceeding pound per package, and articles of inerchandise, not exceeding a few ounces each, as the proper officers of the service have reason to believe contain articles of urgent necessity, such as eyeglasses, medicines, etc., for individual use, may be inclosed in the mails for dispatch.

The rale of postage on gold coin, gold bullion and gold du to offered for mailing between any two points in Alaska, or between any point in Alaska and any point in the United States or its possessions, is two cents an ounce or fraction thereof regardless

possessions, is two cents an ounce or fraction thereof regardless of distance. Such gold coin, gold bullion, or gold dust must be inclosed in sealed packages not exceeding eleven pounds in weight and sent by registered mail.

Canada, Cuba, Mexico and Panama. Articles of every kind or nature which are admitted to the domestic mails of the United States will be admitted under the same conditions to the mails for Canada, Cuba, Mexico, and the Republic of Panama, except commercial papers, which are admitted at 5c for first 10 ounces or less, and 1e for each additional 2 ounces or fraction of 2 ounces; and bona fide trade samples, which are admitted at 2c for the first 4 ounces or less, and 1c for each additional 2 ounces or fraction of 2 ounces, limit of weight 12 ounces. Packages of printed matter—other than second-class additional 2 ounces or traction of 2 ounces, limit of weight 12 ounces. Packages of printed matter—other than second-class matter and single volumes of printed books—the weight of which exceeds four pounds six ounces, are excluded from mails for Canada, Cuba, Mexico, and the Republic of Panama, and sealed packages other than letters in their usual and ordinary form, are unmailable to those countries.

The rate on books and other printed matter is 1 cent for each 2 ounces or fraction thereof.

each 2 ounces or fraction thereof.

The postage rate applicable in the United States to "secondclass matter," except daily newstapers mailed by publishers
and news agents, addressed for delivery in Canada, is 1 cent for
each four ounces or fraction of four ounces.

Concealed Matter. Matter of a higher class inclosed with
matter of a lower class subjects the whole to the higher rate.
Persons knowingly concealing or inclosing matter of a higher
class in that of a lower class, for the purpose of evading payment
of the proper postage, are liable to a fine of not more than \$100

special delivery. In smaller post-offices only those for which there is a demand are kept on sale. Stamps are issued in perforated or unperforated sheets, in coils of 500 and 1,000 perforated or unperforated, in books, and embossed on envelopes. When stamps are so affixed to mail that one overlies the other, concealing part of its surface, the covered stamp is not taken into account in prepayment.

Postal cards are issued singly, and in sheets for printing purposes; there are also reply postal cards, and international postal cards.

Slamped envelopes and newspaper wrappers are issued by the Post-Office Department.

Post-Office Department.

Post-Office Department.

Post-Office Department.

Post-Office Department.

Post-Office Department.

Redemplose of Slamps. For the purpose of identification only, carrier service is not established; letters to patrons served by and not for advertising, postage stamps may be punctured or rural or star route carriers, or deposited in boxes along such perforated with letters, numerals, or other marks or devices, but the puncture or perforations shall not exceed 4-inch square.

Redemploins: Uncanceled, unserviceable and spoiled postal cards are redeemable in postage stamps at 75% of their postage value; uncanceled and spoiled stamped envelopes and newspaper warappers at their face value. Postage stamps are not redeemable from the public.

Copyright. Matter is divided into four classes—first, second, third and fourth (parcel post).

First-class matter includes written matter, namely: letters, brist-class matter wholly or parly in writing, whether sealed or unsealed (except of other classes). Also matter sealed or otherwise closed against of other classes.) Also matter sealed or otherwise closed against of other classes.) Also matter insealed or otherwise closed against of other classes.) Also matter sealed or otherwise closed against of other classes. In the office where mailed, Ic for each ounce or fraction thereof when deposited at post-offices where ounce of fraction thereof. No

DOMESTIC MAIL-Cont'd

Third-class matter embraces circulars, newspapers and periodicals not admitted to the second-class nor included in the term "book," miscellaneous printed matter, proof-sheets, corrected reas her admired to the second-class her included in the term "book," miscellaneous printed matter, proof-sheets, corrected proof-sheets, manuscript copy accompanying same, matter in point-print or raised characters for the blind, valentines, sheet

point-print or raised characters for the blind, valentines, sheet music, photographs, chromos, posters, lithographs and printed advertising matter on paper only. Rate (unsealed) 1c for each two ounces or fraction thereof. Limit of weight is 4 pounds. Parcels of printed matter weighing over 4 pounds which do not exceed limit of weight and size for fourth-class matter come within that class and are mailable at parcel post rates. Writing permitted as in second-class, also message similar to "Merry Christmas," "Do not open until Christmas," etc.

Special Delivery Service is the prompt delivery of mail by messenger during prescribed hours to persons who reside within the carrier limits of city delivery offices, to patrons of rural service who reside more than one mile from post-offices but within one-half mile of rural routes, and to residents within one mile of any post-office. Special delivery mail is not expedited in transit between post offices. This service is obtained by placing on any letter or article of mail a special depedited in transit between post offices. This service is obtained by placing on any letter or article of mail a special delivery stamp or ten cents worth of ordinary stamps in addition to the lawful postage. When ordinary stamps in addition to the lawful postage. When ordinary stamps are used the words "Special Delivery" must be placed on the envelope or wrapper, directly under but never on the stamps; otherwise the letter or article will not be accorded special delivery service. Hours of delivery are from 7 a. m. to 1 p. m. at city delivery offices, and from 7 a. m. to 7 p. m. at all other offices, or until after the arrival of the last mail, provided that be not later than 9 p. m. Special delivery matter will be delivered at post-offices of the first and second classes on Sunday, and at other offices if open on Sunday. Special delivery will be made at all offices on holidays. When special delivery will be made at all offices on holidays. When special delivery mail can not be delivered for the reason that no one is present to receive it or for other cause, notice is left at the place of address and the mail returned to the post-office, and it is thereafter treated in all respects as ordinary mail.

MONET ORDERS

Postal money orders should be used instead of cash, for remittances by mail. They are issued in amounts up to \$100; when a larger sum than \$100 is sent, any number of additional when a larger sum than \$100 is sent, any number of additional orders may be obtained. Fees for money orders payable in the United States (which includes Alaska, Hawaii and Porto Rico) and its possessions, comprising the Canal Zone, Guam, the Philippines, and Tutuila, Samoa; also for orders payable in Barbados, Bermuda, British Guiana, British Honduras,

Canada, Cuba, Martinique, Newfoundland, States postal agency in Shanghai, the Bahama Islands and in

come octice intalled in the th	
Not over \$2.50 30	. Over \$30 to \$40 15c.
Over \$2.50 to \$5 50	. Over \$40 to \$50 18c.
Over \$5 to \$10 80	. Over \$50 to \$60 20c.
Over \$10 to \$2010c	. Over \$60 to \$75 25c.
Over \$20 to \$3012c	. Over \$75 to \$100 30c.

Domestic money orders issued in continental United States (except Alaska) will be paid at any money order office in continental United States (except Alaska), within thirty days following date of issue. Thereafter payment will be made only at the office drawn on. A domestic order may be repaid at the office of issue within one year.

International money orders, payable in almost any part of the world, may be obtained at all the larger post-offices and many of the smaller ones, as the following rates:

For orders from 1c	to \$10.00	10c
\$10.01	to \$20.00	20c
\$20.01	to \$30.00	30c
\$30.01	to \$40.00	40c
\$40.01	to \$50.00	50c
\$50.01	to \$60.00	60c
\$60.01	to \$70.00	70c
\$70.01	to \$80.00	80c
\$80.01	to \$90.00	90c
\$90.01	to \$100.00\$	1.00

REGISTERED MATTER

The registry system furnishes receipts to the mailer, and provides for indemnity in case of loss. Fee 10c in addition to postage, both prepaid. Any class of mailable matter may be registered (except fourth class, which may be insured) in the domestic mails, or in Postal Union mails (except foreign parcel post packages for Barbados, Curacoa, Dutch Guiana, France, Great Britain, Gibraltar, Greece, Guadeloupe, Martinique, the Netherlands and Uruguay). Foreign parcel post mail must be taken to the post-office to be registered, but other mail may be registered at any post-office or post-office station, by rural carriers, and when sealed and not cumbersome (first-class), by city carriers in residential districts. Indemnity for value up to \$50 is paid for lost registered domestic mail, first-class (sealed); for third-class (unscaled), up to \$25; for value up to 50 francs (\$9.65) for loss of registered articles addressed to Postal Union countries, except foreign parcel post matter and losses beyond control. control.

PARCEL POST

LOCAL, FIRST AND SECOND ZONE RATES

Weight	Local Rate	1st and 2nd Zone Rate	Weight	Local Eate	1st and 2nd Zone Rate	Weight	Local Rate	Ist and 2nd Zone Rate
Lib.	30.05	\$0.05	18 lb.	\$0.14	\$0.22	85 lb.	\$0.22	\$0.39
2 lb.	,06	.06	19 lb.	.14	.23	86 lb.	.23	40
8 lb.	.06	.07	20 lb.	.15	.24	37 lb.	.23	41
4 lb.	.07	.08	21 lb.	.15	-	38 lb.	24	.48
5 lb.	.07	.09	22 lb.	.16	26	29 lb.	.24	.43
6 Jb.	.08	.10	23 lb.	16		40 lb.	.25	.44
7 lb.	.08	.11	24 lb.	.17		41 lb.	.25	.45
6 lb.	.09	.12	25 lb.	.17		42 lb.	.20	.46
9 lb.	.09	.13	26 lb.	.18		48 lb.	.26	.47
10 lb.	.10	.14	27 lb.	.18	-	44 lb.	27	.48
11 lb.	.10	.15	28 lb.	.19		45 lb.	27	.49
13 lb.	.11	.16	29 lb.	.19		46 lb.	.28	.50
13 lb.	.11	.17	80 lb.	.20		47 lb.	.28	.51
14 lb.	.12	.18	31 lb.	.20		48 lb.	.29	.52
15 lb.	.12		22 lb.	.21		49 lb.	29	.53
16 lb.	.18	_	38 lb.	21		50 lb.	.20	.54
17 lb.	.13	.21	84 lb.	.22	.33			•

RATES IN THIRD TO EIGHTH ZONES

Weigh	8d Zone Rate 150-300 miles	4th Zone Rate 800-600 miles	5th Zone Rate 600-1000 miles	6th Zone Rate 1000-1400 miles	7th Zone Rate 1400-1800 miles	8th Zone Rate All over 1800 miles
1 lb.	\$0.06	\$0.07	\$0.08	\$0.09	\$0.11	\$0.12
2 lb.	.08	.11	.14	.17	.21	.24
8 lb.	.10	.15	.20	.25	.31	.36
4 lb.	.12	19	.26	.33	.41	.48
5 lb.	:14	.23	82	41	.51	,60
6 lb.	.16	.27	.88	.49	61	.72
7 lb.	.18	.51	.44	.57	.71	.84
8 lb.	.20	.35	.60	65	.81	.96
9 lb.	.23	.39	.6,6	.73	.91	1.08
10 lb.	.24	A3	.62	81	1.01	1.20
11 lb.	,26	.47	.68	.89	1.11	1.32
12 lb.	.28	,51	.74	.97	1.21	1.44
18 lb.	30	.55	.80	1.05	1.31	1.56
14 lb.	.32	.69	.86	1.13	1.41	1.68
15 lb.	,34	.63	.92	1.21	1.51	1.80
16 lb.	.36	.67	.08	1.29	1.61	1.92
17 lb.	.38	.71	1.04	1.37	1.71	2.04
18 lb.	.40	.75	1.10	1.45	1.81	2.16
19 lb.	.42	.79	1.18	1.53	1.91	2.28
20 lb.	41	663	1,23	1.61	2.01	2.40

PARCEL POST-Cont'd

Fourth-class matter (demestic parcel post) includes merparcel must be affixed to the wrapper of the parcel, and those chandise, farm and factory products, seeds, cuttings, bulbs, to pay the postage on the communication must be affixed to roots, scions, and plants, books (including catalogues), miscellaneous printed matter weighing more than four pounds, and matter). Parcels to which such communications are attached all other mailable matter not embraced in the first, second and are treated as fourth-class matter. Only one special-delivery third classes. Rates of postage—unsealed—are as follows: fee is required on such parcels sent as special-delivery matter. (a) Parcels weighing 4 ounces or less, except books, seeds, Proprietary Articles of Merchandise, such as harmless medicplants, etc., 1c for each ounce or fraction thereof, any distance. (b) Parcels weighing 8 ounces or less containing books, seeds, fixed quantities, in original sealed packages by the manufacturer plants, cuttings, bulbs, roots, and scions, 1c for each 2 ounces or so as to allow examination, and labeled in printing so as to show fraction thereof, regardless of distance. (c) Parcels weighing the nature of contents, quantity, and name of the manufacturer, more than 8 ounces containing books, seeds, plants, etc., parcels are mailable at the fourth-class rates of postage. If such sealed of miscellaneous printed matter weighing more than 4 pounds, packages are inclosed in an outer wrapper, the latter must not and all other parcels of fourth-class matter weighing more than be sealed.

of miscellaneous printed matter weighing more than 4 pounds, and all other parcels of fourth-class matter weighing more than 4 ounces are chargeable, according to distance or zone, at the pound rates shown in the table on preceding page, a fraction of a pound being considered a full pound:

Alaska, Hawaiian and Philippine Islands, etc. The eighth zone rate of 12 cents for each pound or fraction thereof on all delivered to a rural or other carrier duly authorized to receive parcels weighing more than 4 ounces (except books, seeds, cuttings, bulbs, roots, scions, and plants, weighing 8 ounces or less), applies (1) between the United States and the Hawaiian Islands; (2) between the United States and the Hawaiian Lislands; (3) between the United States and the Canal Zone; (4) between the United States and the Philippine Islands; (6) between the United States and the Philippine Islands; (6) between the United States and the Philippine Islands of the Samoan group east of longitude 171° west of Greenwich, and the United States and its other possessions; (7) between the United States and its other possessions; (7) between the United States and its other possessions; (8) between the United States and its other possessions; (9) between the United States and its other possessions; (10) between the United States and its other possessions; (10) between the United States and its other possessions; (10) between the United States and its other possessions; (10) between the United States and its other possessions; (10) between the United States and its other possessions; (10) between the United States and its other possessions; (10) between the United States and its other possessions; (10) between the United States and its other possessions; (10) between the United States and its other possessions; (10) between the United States and its other possessions; (10) between the United States and its other possessions; (10) between the United States and its other possessions; (10) between the United States and its other possessions; (

(7) between the United States and its orang vessels stationed in foreign waters.

Canada, Cuba, Mexico and Panama. The rate of 12 cents for each pound or fraction thereof also applies to fourth-class matter, including seeds, cuttings, bulbs, roots, scions and plants (but excepting books and other printed matter) weighing more than 4 ounces and not exceeding 4 pounds 6 ounces, when mailed to Canada, Mexico, Cuba and Panama. Parcels weighing up to 11 pounds may be sent to Mexico and Panama as foreign parcel post mail.

Limit of Size. Parcel Post matter may not exceed 84 inches in length and girth combined. In measuring a parcel, the greatest distance in a straight line between the ends (but not around the parcel,) is taken as its length, while the distance around the thickest part is taken as its girth. For example, a parcel 30 inches long, 15 inches wide and 10 inches high measures 80 inches, in length and girth combined.

Name and Address of Sender. A parcel of fourth-class matter may not be accepted for mailing unless it bears the name and address of the sender, which should be preceded by the word "from"

Additions to Fourth-Class Mail. The written additions pe

Additions to Fourth-Class Mail. The written additions permissible upon third-class matter also may be placed on fourth-class matter, together with any marks, numbers, names, or letters for purpose of description, or they may be placed on the wrapper or cover, tag or label. There may be written on the blank leaves or cover of any book a simple manuscript dedication or inscription not in the nature of personal correspondence. Inclosures. There may be inclosed with fourth-class matter, invoice showing the name and address of the sender and of the addresses; the names and quantities of articles inclosed, together with inscriptions indicating "for purpose of description," the price, style, stock number, size, and quality of the articles; the order or file number, date of order, and date and manner of shipment; and the initials or name of the salesman, or of the person by whom the articles were packed or checked.

Inscriptions, such as "Merry Christmas," "With best wishes," "Do not open until Christmas," may be written on fourth-class mail, or on a card inclosed therewith.

mail, or on a card inclosed therewith.

COMMUNICATIONS ATTACHED TO PARCELS

When it is desired to send a communication with a parcel on which postage at the fourth-class rate has been fully prepaid, the communication may be placed in an envelope fully prepaid at the first-class rate and addressed to correspond with the address on the parcel and then be tied to or otherwise securely attached to the outside of the parcel in such manner as to prevent its separation therefrom and not to interfere with the address on the parcel. The stamps to cover the postage on the

packages are inclosed in an outer wrapper, the latter must not be sealed.

Fees and Conditions. Fourth-class mail shall not be registered, but may be insured against loss in an amount equivalent to its actual value, but not to exceed \$5.00 in any one case, on payment of a fee of 3 cents; not to exceed \$5.00 on payment of a fee of 10 cents, or not to exceed \$100.00 on payment of a fee of 25 cents, in addition to the postage, both to be prepaid by stamps affixed; but indemnity will not be allowed in cases of loss of such mail addressed to the Philippine Islands, unless the loss occurred in the postal service of the United States. Such mail of such mail addressed to the Philippine Islands, unless the loss occurred in the postal service of the United States. Such mail may be insured at any post-office or station thereof, or by rural carriers. Return receipts for insured parcels may be obtained by indorsing the parcels and tags "Return receipt desired." Indemnity for lost insured parcels is paid for their actual value within the limit of insurance. No indemnity is payable on account of mere partial damage. An article so damaged as to render it wholly worthless is regarded as lost, provided it was packed and indorsed in accordance with the postal requirements. ments.

COLLECT-ON-DELIVERY SERVICE

Conditions and Fee. Parcels of fourth-class or parcel post matter (but no other) may be sent C. O. D. from one United States money order post-office to another, excepting those in the Philippine Islands, on payment of a fee of 10 cents in addition to the postage, both to be prepaid with stamps affixed. Amount to be collected and remitted to the sender must not exceed \$100. Remittance is made by post-office money order, fee therefor being included in the amount collected from the addressee. The C. O. D. fee also covers insurance against loss. Examination of contents of C. O. D. parcels is not permitted.

Indemnity for Lost C. O. D. Parcels is paid for the actual value not to exceed \$50, under the conditions governing the payment of indemnity for lost insured parcels.

PREPARATION AND WRAPPING OF MAIL MATTER FOR PARCEL POST

Nailed Boxes. Parcel post mail may be inclosed in boxes to which the lids are nailed or screwed, provided the lids can be readily removed with a chisel or screw-driver for examination

of contents.

Wrapping. All matter should be securely wrapped so as to bear transmission without breaking, or injuring mail bags, their contents or the persons handling them.

Parcels weighing twenty pounds or under are generally carried inside mail bags with other mail; those weighing over twenty pounds are usually carried outside mail bags. They should be wrapped with that understanding.

Parcels improperly or insufficiently wrapped will not be accepted for transmission in the mails.

Umbrellas, capes, golf-sicks and similar articles must be reinforced by strips of wood or otherwise sufficiently wrapped.

Hats must be packed in strong boxes; if in ordinary pasteboard hat boxes, they must be properly crated.

PARCEL POST-Cont'd

Cut flowers, candies, etc., should be inclosed in strong boxes.

Stove castings and pieces of machinery should be protected with excelsior or similar material and wrapped in cloth or strong

with excelsior or similar material and wrapped in cloth or strong paper or be properly boxed or crated.

Mailable hides and pelts must be thoroughly wrapped to prevent the escape of grease.

Harmful articles not absolutely excluded from the mails, but which, from their form or nature, might, unless properly secured, destroy, deface, or otherwise damage the contents of the mail bag, or harm the person of any one engaged in the postal service, may be transmitted in the mails only when packed in accordance with the postal regulations.

postal service, may be fransmitted in the mails only when packed in accordance with the postal regulations.

Sharp-pointed or sharp edged instruments or tools must have their points and edges protected so that they can not cut through their covering, and be thoroughly wrapped.

Powders and all pulserised dry substances must be so wrapped that none of the contents of the package will sift out.

Pastes, salves, etc., not easily liquefiable, must be inclosed in water-tight containers and placed in strong boxes and security arranged.

curely wrapped.

Liquids. Admissible liquids in packages not exceeding the limit of weight of fourth-class matter will be accepted for mailing when intended for delivery at the office of mailing or maining when intended for derivery at the onice of maining or on a rural route starting therefrom when inclosed in a glass or metal container securely inclosed and heavily wrapped, pro-vided it is not necessary to transport them over steam or

metal container securely inclosed and heavily wrapped, provided it is not necessary to transport them over steam or electric railways.

Admissible liquids and oils, pastes, salves or other articles easily liquefiable, will be accepted for mailing, regardless of distance, when they conform to the following conditions:

(a) When in strong glass bottles holding 4 owness or less, the total quantity sent in one parcel shall not exceed 24 ounces, iquid measure. Each bottle shall be wrapped in paper or other absorbent substance and then all placed in a box made of cardboard or other suitable material and packed in a container made of double-faced corrugated pasteboard of good quality. The corners of the container must fit tightly and be reinforced with tape so as to prevent the escape of any liquid if the contents should be broken, and the whole parcel shall be securely wrapped with strong paper and tied with twine. Single bottles of liquid holding 4 ounces or less may also be packed as prescribed in the following paragraphs (b) and (c):

(b) When in glass bottles holding more than 4 owness, the total quantity sent in one parcel shall not exceed 16 ounces, liquid measure. The bottle must be very strong and must be inclosed in a block or tube of metal, wood, papier-mache or similar material; and there must be provided between the bottle and the block or tube, if of wood or papier-mache, must be at least one-eighth of an inch thick for bottles holding 8 ounces or less, and at least three-sixteenths of an inch thick for bottles holding more than 8 ounces. The block or tube must be rendered watertight by an application on the inside of paraffin or other suitable substance and must be reclosed by a screw-top cover with sufficient screw threads to require at least one and one-half complete interest whereads to require at least one and one-half complete. tight by an application on the inside of paraffin or other suitable substance and must be closed by a screw-top cover with sufficient screw threads to require at least one and one-half complete turns before it will come off. The cover must be provided with a washer, so that no liquid could escape if the bottle should be broken. Any number of bottles separately packed as herein prescribed may be included in a single package if the limit of weight and size for fourth-class matter be not exceeded.

(c) Bottles containing liquid may also be packed in strong and tight receptacles of wood, metal or waterproof corrugated pasteboard. Space must be left all around the bottle, which must be filled with bran, sawdust or other absorbent material in sufficient quantity to absorb all the liquid if the bottle should get broken.

get broken.

(d) When in a metal container, the weight limit of the parcel

(d) When in a metal container, the weight limit of the parcel is the same as for other fourth-class matter. The container must be securely sealed and inclosed in a strong box.
(e) When in parcels weighing more than twenty pounds, mailable liquids in securely-sealed glass bottles or metal cans will be accepted for mailing to offices in the first and second zones when packed in strong boxes and surrounded with sawdust or other suitable substance to protect the contents from breakage. All such packages to be marked "FRAGILE—THIS SIDE UP," or with similar inscription, and to be transported outside of mail bags.
All backages containing liquid must be marked "FRAGILE."

All packages containing liquid must be marked "FRAGILE."

Fragile Articles. Articles easily broken must be very securely

wrapped for safe transmission.

Glass, crockery, fragile toys, etc., must be so packed as to prevent the escape of particles or pieces from the packages if broken in transit.

Cigars should be packed in a manner to prevent damage by shock or jar.

Mass, drawings, paintings, etc., must be suitably protected with stout material to prevent damage. When not flat, they should be rolled around a stout stick and carefully wrapped or inclosed in a strong pasteboard tube.

All such articles should be marked "FRAGILE."

All such articles should be marked "FRAGILE."

Rggs will be accepted for local delivery when so packed in a basket or other container as to prevent damage to other mail. Eggs will be accepted for mailing regardless of distance, when each egg is separately wrapped and surrounded with excelsior, cotton or other suitable material and packed in a strong container made of double-faced corrugated pasteboard, metal, wood or other suitable material and wrapped so that nothing can escape from the package. All such parcels shall be labeled "EGGS."

abeled "EGGS."

Eggs in parcels weighing more than twenty pounds will be accepted for mailing to offices in the first and second zones when packed in crates, boxes, buckets or other containers having tight bottoms to prevent the escape of anything from the package and so constructed as properly to protect the contents. Such packages to be marked "EGGS—THIS SIDE UP," and to be transported outside of mail bags.

Perishable Articles. Parcels containing perishable articles shall be marked "PERISHABLE." Articles likely to spoil within the time reasonably required for transportation and delivery shall not be accepted for mailing.

Butter, lard and perishable articles such as fish, fresh meats, dressed fowls, vegetables, fruits, berries, and articles of a similar nature which decay quickly, when so packed or wrapped as to prevent damage to other mail, will be accepted for local delivery either at the office of mailing or on any rural route starting therefrom. When inclosed in an inner cover and a strong outer cover of wood, metal, heavy corrugated pasteboard, or other suitable material, and wrapped so that nothing can escape from the package, they will be accepted for mailing to all offices to which in the ordinary course of mail they can be sent without spoiling.

Butter, descend fould: secetables, fruits, and other perishable

sent without spoiling.

Butter, dressed fowls, vegetables, fruits, and other perishable articles in parcels weighing more than twenty pounds will be accepted for mailing to offices in the first and second zones when accepted for mailing to offices in the first and second zones when suitably wrapped or inclosed and packed in crates, boxes or other suitable containers having tight bottoms to prevent the escape of anything from the package and so constructed as properly to protect the contents. All such parcels to be transported outside of mail bags.

Vegetables and fruits which do not decay quickly will be accepted for mailing to any zone if packed so as to prevent damage to other mail.

POSTAL SAVINGS SYSTEM

Purpose. The Postal Savings System provides facilities for depositing savings at interest, with the security of the United States Government for repayment.

Service Free. No charge or fee is collected or required in connection with the opening of an account or the subsequent deposit or withdrawal of money. The proper money order fee is charged, however, when withdrawals are made by mail.

Deposits. Any person of the age of ten years or over may become a depositor. The account of a married woman is free from the control or interference of her husband. No person can have more than one account at the same time.

An account can not be opened for less than \$1, nor can fractions of \$1 be deposited or withdrawn. Amounts less than \$1 may, however, be saved by the purchase of 10-cent postal savings cards and adhesive 10-cent postal savings stamps. A postal savings card with nine postal savings stamps affixed will be redeemed in cash for \$1, or will be accepted as a deposit of \$1 either in opening an account or adding to an existing account. No person is permitted to have a balance to his credit at one time of more than \$1,000, exclusive of interest. An account may be opened through a representative, or by mail. mail.

POSTAL SAVINGS SYSTEM-Cont'd

savings depository desires to open a postal savings account by mail, he should apply to his local postmaster, who will make the necessary arrangements. After an account is opened deposits

necessary arrangements. After an account is opened deposits may be made through a representative or by mail.

Certificates of Deposit. Depositors receive postal savings certificates covering the amount of each deposit made. These certificates are issued in fixed denominations of \$1, \$2, \$5, \$10, \$20, \$50 and \$100, and are valid until paid, without limitation as to time. Postmasters are not permitted to receive savings certificates for safekeeping.

Interest. Interest will be allowed on all certificates at the rate of 2 per cent for each full year that the money remains on deposit, beginning on the first day of the month following the month in which the deposit is made. Interest continues to accrue on deposits as long as the certificates remain outstanding.

Withdrawals. A depositor may at any time withdraw the whole or any part of his deposits, with any interest payable,

When a patron of a post-office not designated as a postal by surrendering at his depository office savings certificates avings depository desires to open a postal savings account by pail, he should apply to his local postmaster, who will make the secssary arrangements. After an account is opened deposits ay be made through a representative or by mail.

Certificates of Deposit. Depositors receive postal savings ertificates covering the amount of each deposit made. These criticates are issued in fixed denominations of \$1, \$2, \$5, \$10, \$50 and \$100, and are valid until paid, without limitation to time. Postmasters are not permitted to receive savings rificates for safekeeping.

Interest. Interest will be allowed on all certificates at the te of 2 per cent for each full year that the monty remains the purchased at par by the Board of Trustees of the Postal adeposit, beginning on the first day of the month following. Savings System.

Savings System. Further information concerning the Postal Savings System may be obtained by applying at any depository post-office or by addressing the Third Assistant Postmaster General, Division of Postal Savings, Washington, D. C.

FOREIGN MAIL MATTER

BATES OF POSTAGE

The rates of postage applicable to articles for foreign countries are as follows:

when not dispatched by direct steamers:

Single post cards (including souvenir cards), each...... Reply postal cards, each.
Printed matter of all kinds, for each two ounces or fraction of

Commercial papers, for the first ten ounces or less.....

For rates on International Money Orders and Registered Matter see first page, "Domestic Mail."

CLASSIFICATION

Articles for or from foreign countries (except Canada, Cuba, Mexico and the Republic of Panama, and the United States Postal Agency at Shanghai) are classified as "Letters," "Posta Cards," "Printed Matter," "Commercial Papers" and "Samples of Merchandise." There is no provision in the Postal Union mails for merchandise other than samples.

Letters. When a package is prepaid in full at the letter rate it is treated as letter mail. Such packages may contain merchandise not sent as trade samples. Sealed or unsealed packages which appear to contain dutiable matter will be inspected by customs officers of the country of destination and the proper customs duties will be levied.

Postal Cards. The United States international 2-cent single and reply postal cards should be used for correspondence with foreign countries, except Canada, Cuba, Mexico, the Republic of Panama, and Shanghai, to which the domestic 1-cent single and reply postal cards are mailable. Articles for or from foreign countries (except Canada, Cuba,

of Panama, and Shanghai, to which the domestic 1-cent single and reply postal cards are mailable. Private mailing cards are transmissible to foreign countries at the rate of 2 cents each. If entirely in print and bearing no personal message, they may be sent at the rate of 1 cent each. Those addressed to Canada, Cuba, Mexico, Republic of Panama, and Shanghai may be sent at 1 cent each. Printed Matter. The rate of postage on printed matter in the foreign mails is one cent for each two ounces. Commercial Papers. This class includes all instruments or documents written or drawn wholly or partly by hand, which have not the character of an actual and personal correspondence.

have not the character of an actual and personal correspondence.

Samples of Merchandise. Packages of miscellaneous merchandise in the regular mails for foreign countries (except Can-

*The 2-cent rate to Germany is suspended for the present.

ada, Cuba, Mexico, Republic of Panama and Shanghai) are restricted to bona fide samples or specimens having no salable or commercial value in excess of that actually necessary for their use as samples or specimens.

Samples of merchandise must conform to the following

conditions:

(1) They must be placed in bags, boxes or removable en-

(1) They must be placed in bags, boxes or removable envelopes in such a manner as to admit easy inspection.

(2) They must not have any salable value nor bear any manuscript other than the name or profession of the sender; the address of the addressee, a manufacturer's or trade mark numbers, prices and indications relating to the weight or size of the quantity to be disposed of, and words which are necessary to indicate precisely the origin and nature of the merchandise. Packages of samples of merchandise must not exceed twelve ounces in weight, twelve inches in length, eight inches in breadth and four inches in thickness.

Permissible Additions and Inclosures. Packets of printed matter, commercial papers, and samples must not contain any letter or manuscript note having the character of an actual and personal correspondence, and must be made up in such manner as to admit of being easily examined. The following manuscript additions may be made to "prints:" The name, business, and residence of the sender; to visiting cards, the title and address of the sender, and congratulations, thanks, etc., not to exceed five words; the date of dispatch; the necessary corrections on proofs of printing, and the "copy" may be inclosed with the proof; correction of errors in printing other than proof; the erasure and underscoring of certain words; the insertion or correction of figures in price lists, advertisements, trade circulars, and prospectuses; the insertion of the name of the traveler, the date and place of his intended visit, in notices concerning the trips of commercial travelers; the dates of saling on notices relating to the sailing of vessels; the name of the person invited, the date, object, and place, on cards of invitation and notices of meetings; a dedication on books, journals photographs, Christmas and New Year's cards; fashion places, maps, etc., may be painted; to cuttings from journals, the title, date, number and address of the journal from which they were cut may be added; an invoice may be attached to t

Manuscript additions other than those above indicated, and those which would deprive the print of its general character and give to it that of individual correspondence, are prohibited upon "prints."

It is permitted to inclose in the same package samples of merchandise, prints, and commercial papers, but subject to the following conditions: (1) That each class of articles taken singly shall not exceed the limits which are applicable to it as regards weight and size. (2) That the total weight of the package must not exceed four pounds six ounces. (3) That the minimum charge shall be 5 cents when the package contains commercial papers, and 2 cents when it consists of printed matter and samples.

Return Postage. There may be purchased at a post-office for 6 cents a reply-coupon, by means of which a person in the United States can furnish his correspondent in certain foreign countries with a postage stamp with which to prepay postage.

countries with a postage stamp with which to prepay postage

FOREIGN MAIL MATTER-Cont'd

on a reply. The countries in which the reply-coupon is valid may be ascertained upon inquiry at a post-office.

Reply-coupons issued by other countries are redeemable at United States post-offices in postage stamps to the value of five cents for each reply-coupon.

Prohibited Articles. All articles not admissible to the domestic mails are excluded also from the foreign mails.

The transmission of the following articles is absolutely prohibited in the mails for foreign countries under any circumstances; viz., publications which violate the copyright laws of the country of destination; packets (except single volumes of printed books for Canada, Cuba, Mexico, the Republic of Panama, Shanghai, and Salvador, and second-class matter for Canada, Cuba, Mexico, the Republic of Panama and Shanghai, which exceed four pounds, six ounces in weight; and letters or packages containing coin, gold or silver substances, jewelry or precious articles. This probibition against coin, etc., does not apply to Canada, Cuba, Mexico, the Republic of Panama, Shanghai, or those countries whose legislation does not prohibit their circulation in their domestic mails. So far as the Post-office Department has been advised, the conditions prescribed prevent the forwarding of the articles referred to in the mail for any country of the Postal Union except Canada, Cape Colony, Colombia, Denmark, Germany and the German Protectorates, Great Britain and certain British Colonies, Luxemburg, Peru and Siam.

Prohibited articles, if mailed sealed against inspection, will The transmission of the following articles is absolutely pro-

Prohibited articles, if mailed sealed against inspection, will not be delivered, although they reach their destination.

Miscellaneous Conditions. Wrapping. All matter to be sent in the mails at less than the letter rates of postage must be wrapped securely and in such manner that it can easily be ex-

Postage Due. Letters with postage wholly unpaid and articles of all kinds with insufficient postage paid are chargeable with double the amount of the deficient postage.

Forwarding. Mail matter of all kinds received from any foreign country, including Canada, Cuba, Mexico and the Republic of Panama, is required to be forwarded, at the request of the addressee, from one post-office to another and—in the case of articles other than parcel post packages—to any foreign country, without additional charge for postage.

Return. Letters and other articles of apparent value, if undeliverable, are required to be returned without extra charge.

FOREIGN PARCEL POST

Admissible Matter. Packages of mailable merchandise may be sent in unsealed packages, by "Parcel Post" to the following

British Guiana. Australia, including Belgium (suspended) Chile, Colombia Tasmania. Bermuda, Austria, (suspended) Bolivia, Costa Rica, *Curacao,

Newfoundland, New Zealand, includ-

Danish W. Indies, Guatemala,
Denmark, including Haiti,
Faroe Islands and Honduras (British), ing Fanni
Honduras (Republic Nicaragua,
Norway, ing Fanning Island Dominican Republic, of), *Dutch Guiana, Hongkong,† Panama,

Ecuador, Hungary, (supended) Peru, Italy Salvador, *France. Jamaica, Sweden, *French Guiana, including

Germany, (suspendeeward Islands. Tobago. ed) Liberia,
*Martinique. *Uruguay, *Gibraltar, Venezuela, Windward Islands *Great Britain, Mexico, *Netherland, (sus-Islands of Carpathos *Guadeloupe. and Rhodes.

Postage Rates. Postage must be prepaid in full by stamps affixed at the rate of 12 cents a pound or fraction of a pound. Registry fee 10 cents in addition to postage.

Registration. The sender of a parcel addressed to any of the countries named in the table at the head of this section, except Countries named in the table at the head of this section, except Argentina, Barbados, Curacao, Dutch Guiana, France, Frence, Guiana, Gibraltar, Great Britain, Greece, Guadeloupe, Martinique, The Netherlands and Uruguay, may have the same registered by paying a registry fee of 10 cents, and will receive the "Return Receipts" without special charge therefor, when envelope or wrapper is marked "Return receipt demanded"

Place of Mailing. Matter intended for parcel post must be taken to the post-office for inspection and there deposited in the mails. It must not be deposited in a letter box.

Letters Prohibited. A letter or communication of the nature of

Decision Frontier. A feeter of communication of the nature of personal correspondence must not accompany, be written on, or inclosed with any parcel. If such be found, the letter will be placed in the mails if separable, and if the communication be inseparably attached, the whole parcel will be rejected. Dimensions. To all countries named packages are limited to three and one-half feet in length, and to six feet in length and girth combined, except that packages for Colombia and Mexico

are limited to two feet in length and four feet in girth.

Weight. Packages to certain post-offices in Mexico must
not exceed four pounds six ounces in weight, but those for all other countries named may weigh up to but not exceeding eleven

* Parcels cannot be registered.

† Parcel post packages addressed for delivery in the cities in China named in United States Postal Guide, are mailable at the

postage rate and subject to the conditions applicable to parcel post packages for delivery at Hongkong.

‡ Parcel post packages addressed for delivery at any post-office in Formosa or Korea, and the places in China and Manchuria named in United States Postal Guide, are mailable at the postage rate and subject to the conditions applicable to parcel post packages addressed for delivery in Japan.

WOMEN'S PEACE PARTY

The Women's Peace Party was started at Washington on January 10th, 1915, in order that women might have a means of voicing their protest against war. It demanded for women a share in deciding between war and peace, inasmuch as women and children are the greatest sufferers when a nation is at war. Among other things, the platform calls for education of youth in the ideals of peace, the franchise for women, the "concert of nations" to supersede "balance of power," the substitution of law for war throughout the world, and of an international police for rival armies and navies. At a meeting in Amsterdam on February 13th, 1915, by leaders of women's organizations, it was decided to call an international women's congress in a neutral city for the purpose of discussing what role women should assume in preventing further wars, encouraging international comity, and promoting political liberty for all women. On April 29th at Hague, the Netherlands, the first of a series of meetings was held. Jane Addams, of Chicago, was chosen for chairwoman. More than a thousand women selected from sixteen countries, took part. America sent the largest delegation, the next in order being Germany, Austria-Hungary, Norway and Sweden. Resolutions were passed urging that moral, commercial and economic pressure be brought to bear

on nations failing to refer their disagreements to arbitration; that all secret treaties should be void, that there should be not transference of territory without the consent of the men and women residing therein, that the seas should be open to all nations on equal terms; urging governments of the world to make an end to the war, begin peace negotiations and effect a settlement based on justice; recommending the nationalization of armaments in order to prevent manufacturers of munitions from fostering war, protesting against the horror of war, opposing the assumption that women can be protected under conditions of modern warfare, and declaring that women's influence against war can be effective only with equal political rights. A permanent International Women's Peace Committee was created, and the congress sent delegates to the President of the United States and to the heads of many European nations for the purpose of promoting if possible, the beginning of negotiations between the belligerents. Twenty-one countries have subsequently appointed committees which will go to the place at which the war settlement is made and will hold a congress on the fifth week of the Peace Conference. The National headquarters of the W. P. P. is 116 So. Michigan Avenue, Chicago, Ill. Miss Jane Addams is national chairwoman.

STATE ELECTION CALENDAR

Gubernatorial if not otherwise specified

Alabama—Every fourth year. Next election Nov. 5, 1918.
Arizona—Biennially; first Tuesday after first Monday in November. Next election Nov. 5, 1918.
Arkansas—Biennially; second Monday in September. Next election Sept. 9, 1918.
California—Every fourth year. Next election Nov. 5, 1918.
Colorado—Biennially. Next election Nov. 5, 1918.
Connecticut—State officers except attorney-general, biennially; Next election Nov. 2, 1920.
Next election Nov. 2, 1920.
Delaware—Every fourth year. Next election Nov. 2, 1920.
Florida—Every fourth year. Next election Nov. 2, 1920.
Georgia—Biennially. Next election Nov. 5, 1918.
Illinois—Governor, lieutenant-governor, secretary of state, auditor and attorney-general every fourth year. Next election Nov. 2, 1920.
State treasurer biennially. Next election Nov. 5, 1918.
Indiana—Governor, every fourth year. Next election Nov. 5, 1918.
Indiana—Governor, every fourth year. Next election Nov. 2, 1928.
Indiana—Governor, every fourth year. Next election Nov. 2, 1918.
Indiana—Governor, every fourth year. Next election Nov. 5, 1918.
Indiana—Governor, every fourth year. Next election Nov. 5, 1918.
Indiana—Governor, every fourth year. Next election Nov. 5, 1918. 1918.

Lowa—Governor, lieutenant-governor, superintendent of instruction, one justice of the Supreme court and one railroad commissioner biennially. Next election Nov. 5, 1918.

Kansas—Biennially. Next election Nov. 4, 1919.

Louisiana—Every fourth year. Next election Nov. 4, 1919.

Louisiana—Every fourth year; third Tuesday in April. Next election April 13, 1920.

Maine—Biennially; second Monday in September. Next election Nept. 9, 1918.

Maryland—Every fourth year. Next election Nov. 4, 1919.

Massachusetts—Annually. Next election Nov. 5, 1917.

Michigan—Biennially. Next election Nov. 5, 1917.

Minnesota—Biennially. Next election Nov. 5, 1918.

Mississippi—Every fourth year. Next election Nov. 4, 1919.

Missouri—Principal state officers every fourth year. Next election of governor, lieutenant-governor, secretary of state, election of governor, lieutenant-governor, secretary of state, Missouri—Principal state officers every fourth year. Next election of governor, lieutenant-governor, secretary of state, auditor, treasurer and attorney-general Nov. 2, 1920.

Montana—Every fourth year. Next election Nov. 2, 1920.

Nebraska—Biennially. Next election Nov. 5, 1918.

New Hampshire—Biennially. Next election Nov. 5, 1918.

New Hampshire—Biennially. Next election Nov. 5 1918.

New Jersey—Governor every third year, other officers appointed. Next election Nov. 3, 1919.

New Mexico—Every fourth year; on Tuesday after the first Monday in November. Next election Nov. 2, 1920.

New York—Biennially. Next election Nov. 5, 1918.

North Carolina—Every fourth year. Next election Nov. 2, 1920. North Dakota—Biennially. Next election Nov. 5, 1918. Ohio—Governor, lieutenant-governor, state treasurer and attorney-general biennially. Next election Nov. 6, 1917. Secretary of state and dairy and food commissioner biennially. Next election Nov. 5, 1918. Auditor every fourth year. Next election Nov. 4, 1919. Next election Nov. 4, 1919.
Oklahoma—Every fourth year. Next election Nov. 5, 1918.
Oregon—Every fourth year. Next election Nov. 5, 1918.
Pennsylvania—Governor, lieutenant-governor and secretary of internal affairs every fourth year. Next election Nov. 5, 1918.
State treasurer biennially. Next election Nov. 4, 1919.
Other officials appointed.
Rhode Island—Biennially. Next election Nov. 5, 1918.
South Carolina—Biennially. Next election Nov. 5, 1918.
South Dakota—Biennially. Next election Nov. 5, 1918.
Tennessee—Biennially. Next election Nov. 5, 1918.
Texas—Biennially. Next election Nov. 5, 1918.
Texas—Biennially. Next election Nov. 2, 1920.
Vermont—Biennially; first Tuesday in September. Next election Sept. 3, 1918. tion Sept. 3, 1918. Virginia—Every fourth year. Next election Nov. 6, 1917. Washington—Every fourth year. Next election Nov. 2, 1920. West Virginia—Every fourth year. Next election Nov. 2, 1920. Wisconsin—Biennially. Next election Nov. 5, 1918. Wyoming—Every fourth year. Next election Nov. 5,

RECORDS OF BALLOTS AT CONVENTIONS

The following table gives the history of the national conventions since 1832, showing the number of ballots taken by each of the two leading parties and the candidate finally selected.

	Ва	llots 🕝	Non	ninations
Year	Dem.	Rep.	Dem.	Rep.
1832	1	ĺ	Jackson	Clay*
1836	1	1 1/2	Van Buren	[Harrison]*†
1840	1	(?)‡	Van Buren	Harrison*
1844	9	1	Polk	Clay*
1848	4	4	Cass	Taylor*
1652		53	Pierce	Scott*
1856		1	Buchanan	Frémont
1860	59	4	Douglas	Lincoln
1864	1	1	McClellan	Lincoln
1868	22	1	Seymour	Grant
1872	1	1	Greeley	Grant
1876	2	7	Tilden .	Hayes
1880	2	36 .	Hancock	Garfield
1884	2	4	Cleveland	Blaine
1888	1	8.	Cleveland	Harrison
1892		1	 Cleveland 	Harrison
1896	5	1 1	Bryan	McKinley
1900	1	1 -	Bryan	McKinley
1904	1	1	Parker	Roosevelt
1908	1	1 .	Bryan	Taft
1912	46	1	Wilson	Taft
1916	1	. 3	Wilson	Hughes

Democrats established the record in their 1860 convention. The delegates assembled in Charleston, S. C., on April 23. They were in session there for ten long days, without coming to any agreement. After fifty-seven ballots had been taken in vain they adjourned to meet at Baltimore on June 18. There the second ballot resulted in the nomination of Stephen A. Douglas. Incidentally the chairman of the National Committee that year of dissension was August Belmont, father of the two Belmonts who were in the storm centre in 1912.

But the happer year for convention seligns was 1852. In

Belmonts who were in the storm centre in 1912.

But the banner year for convention schisms was 1852. In that year over a hundred ballots were taken in the two conventions—49 by the Democrats and 53 by the Whigs. The Whigs finally elected Scott, but the Democrats had to fall back on a compromise candidate in the person of Pierce who was subsequently elected President.

*Whig. †No convention. ‡No record

THE PRESIDENT OF THE UNITED STATES.

Qualifications.—The President must be thirty-five years old, a native of the United States, and a resident therein for fourteen years. The qualifications of the Vice-President are the same.

Term.—His term of office is four years, and he swears to preserve, protect and defend the Constitution of the United States to the best of his ability.

Army Status.—He is Commander-in-Chief of the Army and Navy of the United States, when it is called into the actual service of the nation.

Advisors.—He may require the opinion in writing of the principal officers in each of the executive departments upon any subject relating to the duties of their respective offices. These executive departments are nine in number—Department of State, Treasury Department, War Department, Department of Justice (Attorney-General), Post Office Department, Navy Department, Department of the Interior, Department of Agriculture, Department of Commerce, and Department of Labor. The heads thereof constitute the President's Cabinet or official family.

President's Cainet or omical family.

Powers.—He has power to grant pardons for offenses against the United States, except in cases of impeachments; to make treaties by and with the advice and consent of two-thirds of the Senate; nominate, and, by and with the advice and consent of two-thirds of the Senate, appoint ambassadors, ministers and consults to foreign countries, Judges of the U. S. Supreme Court, and all other officers of the United States whose appointments are not otherwise provided for. If vacancies occur during a recess of the Senate, he may grant commissions to new appointees, which shall expire at the end of the next session of the Senate.

ORIGIN OF THE PRESENT POLITICAL PARTIES

REPUBLICAN PARTY

The organization of the present Republican party was a direct result of the ill feeling aroused by the passage of the Kansas-Nebraska act of 1854. This measure repealed the Compromise act of 1820 which called for the exclusion of slavery north of 36°36′. act of 1820 which called for the exclusion of slavery north of 36°36′. In the northern states the opposition soon greew beyond party lines, the movement absorbing many sympathizers from the Whigs, Free Soilers, and Democrats. The men became known as Anti-Nebraska men. The first state convention of those opposing the Kansas-Nebraska act took place at Jackson, Michigan, on July 6, 1854, and there the name "Republican" was formally adopted. The party was nicknamed "Black-Republican" by the Democrats on account of its sympathy with the colored race, but the other old parties were nearly wiped out by desertions to the new standard.

In 1856, after having already been in control of the House for two years, a national convention was called at Philadelphia at

two years, a national convention was called at Philadelphia at which John C. Frémont of California was nominated for President on a platform opposed to slavery in Territories and in advocacy of a closer union of states. While the Republicans lost they showed decided strength.

The feeling became much more intense during the next four years, the Republicans winning many supporters and the Democrats being badly split between the radical pre-slavery element and the Douglas Democrats. Abraham Lincoln was nominated by the Republican party at Chicago, May 16, 1860 on a platform similar to the one of 1856 with the additional plank of

by the Republican party at Chicago, May 16, 1860 on a platform similar to the one of 1856 with the additional plank of a protective tariff.

With the election of Lincoln the Republican party has held the reins of government, with the exception of two short periods, for over half a century.

DEMOCRATIC PARTY

The Democratic party is the oldest of any of the national political parties now existing. Its policies may be said to have crystallized in the time of Jefferson, although the movement at first was known as the Democratic-Republican party. The name Republican was chosen in opposition to the monarchist and in favor of state's rights. The name Democrat was selected to oppose the aristocratic element and in favor of equal privileges for all. Jefferson was the moving spirit. He was elected President in 1800 and the party held control of the government for twenty-four years. During this era the Federalists, the opposing element, were vanquished. Serious dissentions however, arose in the Jefferson party after the War of 1812. A strong liberal element believed as the Federalists had, in protection, internal improvement and the establishmet of a national bank. In 1824 the two wings ran separate Presidential candidates. The election was settled by the House of Representatives in the choice of John Adams the vice-presidential candidate of the liberal wing. Now virtually a separate party it selected the name of "National Republican" later known as "Whig" while the strict constructionists or Jefferson following took the name of "Democrat" under the leadership of Jackson. Some writers give this as the proper beginning of the Democratic Party, 1828–1831.

After the loss of Jackson the Democratic party fell under the control of Southern enthusiasts who turned the states rights

After the loss of Jackson the Democratic party fell under the control of Southern enthusiasts who turned the states rights doctrine into a defence of slavery. The Kansas trouble further served to draw such leaders as Douglas outside the ranks. In the campaign of 1860 the Democrats had two tickets in the field, the combined popular vote of which surpassed that of Lincoln who was elected by the new Republican party.

PROHIBITION PARTY

Until 1865, what may be designated political temperance depended on the use of parties as they were found to exist in the States. This localized the temperance issue, and subjected it to the whim of opponents. The time had come for the nationalization of the cause. In 1869, during a session of the Good Templars at Oswego, N. Y., a call was made for a convention to organize a "National Prohibition party." This Convention met in Chicago, September 1, 1869, with five hundred delegates from twenty States, and launched the new party. The first National Convention at Columbus, Ohio, February 22, 1872, nominated James Black, of Pennsylvania, for President on a platform declaring that as all existing political parties had proved unwilling to adopt an adequate policy respecting traffic in intoxicating drinks, therefore the Prohibition party pledged itself to maintain the principles of its Declaration and Constitution; that effective State as well as National

prohibition is the only means of suppressing traffic in intoxicants; that existing party competition for the liquor vote is a peril to the nation; dissuasion from the use of intoxicants; competency, honesty and sobriety as qualifications for office.

The party has never polled more than 265,000 votes.

SOCIALIST PARTY

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SOCIALIST PARTY

For historic purposes it is well to state in this connection that the last convention of the American Railway Union was the first convention of the Social Democracy of America, and was held at Chicago, June, 1897, the change of name, and, in some respect, of principles, being due to the crushing of the Union after the Pullman strike. At the national convention of the Social Democracy, June, 1898, a split occurred, one faction adhering to the colonization scheme, the other favoring political action as a working-class party. The latter faction became known as the Social Democratic Party. In July, 1899, the Socialist Labor Party divided, and one of its factions united with the Social Democratic Party in 1900, the united party taking the name of the Socialist Party. In 1900 the Socialist Party, the first in the field for the campaign of 1904, met in national convention at Chicago, May 1-6, 1904, where it nominated, May 5, as its candidate for President Eugene V. Debs, of Terre Haute, Indiana, and for Vice-President Ben Hanford, of New York.

Its platform appealed to the people as that of the only organization that is truly democratic; that other parties are false to the idea of liberty and self-government in which the nation was born, and that State and national legislatures have become the agencies of property interests.

PARTY

The formation of the Progressive Party was the outgrowth of a movement of discontent among the Republicans. Shortly after the beginning of the administration of President Taft in 1908 a number of Senators and members of the House of Representatives broke away from the reactionary methods of the old Republican clique and refused to abide by caucus rules. They combined with the Democratic on many important measures to the embarrassment of the "stand pat" Republicans. At first these men were known as "insurgents." Senator Robert M. La Follette of Wisconsin was the avowed leader of the faction in the Upper House.

the Upper House.

The sentiment against the administration and the conserva-The sentiment against the administration and the conservative element gradually grew throughout the country among the adherents of the party. This was greatly augmented by the passage of the Payne-Aldrich Tariff Act. The movement finally took on the name "Progressive Republican." Representatives from a number of States met in a national conference at Chicago on October 16, 1911 and adopted a platform declaring that "the progressive movement is a struggle to wrest the control of the government in the nation and States from the representatives of special privilege, and restore it to the control of the people." The conference at the same time endorsed Senator La Follette for President and declared for a direct primary as a means for the expression of a presidential choice. The legislatures of several States, following the general agitation for Presidential preference primaries, enacted laws legalizing such methods of procedure.

Senator La Follette commenced a stumping campaign for the Presidency early in the winter 1911–1912. During the spring the became ill and was obliged to retire temporarily. During this interlude Ex-President Roosevelt, who had been urged by a number of leaders to lead the progressive movement, announced his candidacy for the Presidency.

Mr. Roosevelt conducted a strenuous campaign in the States

his candidacy for the Presidency.

Mr. Roosevelt conducted a strenuous campaign in the States where Presidential preference primaries had been established and to the surprise of his closest advisers, he won overwhelming majorities in nearly every one, defeating President Taft, his opponent, in some cases by 6 to 1. Delegates pledged to him went to the Chicago Convention nearly as strong in numbers as those instructed for Mr. Taft, whose delegates were mostly from States not holding primaries. The fight of the Convention is told elsewhere in this Almanac. Mr. Roosevelt lost the nomination but he was not deterred. The very night Mr. Taft was nominated Mr. Roosevelt met his followers in Orchestra Hall at Chicago and there a new party was determined upon, to be known as the Progressive Party.

Several days later a call was issued for a national convention to be held at Chicago during the week beginning August 5.

NATIONAL REPUBLICAN PLATFORM 1016

In 1861 the Republican party stood for the Union. As it In 1801 the Republican parry stood for the Olion. As it stood for the union of States, it now stands for a united people, true to American ideals, loyal to American traditions, knowing no allegiance except to the Constitution, to the Government, and to the flag of the United States. We believe in American policies at home and abroad.

Protection of American Rights. We declare that we believe in and will enforce the protection of every American citizen in all the rights secured to him by the Con-

citizen in all the rights secured to him by the Constitution, treaties, and the law of nations, at home and abroad, by land and sea. These rights, which, in violation of the specific promise of their party, made at Baltimore in 1912, the Democratic President and the Democratic Congress have failed to defend, we will unflinchingly maintain.

We desire peace, the peace of justice and right, and believe in maintaining a straight and honest neutrality between the belligerents in the great war in Europe. We must perform all our duties and insist upon all our rights as neutrals, without fear and without favor. We believe that peace and neutrality, as well as the dignity and influence of the United States, cannot be preserved by shifty expedients, by phrasemaking, by performances in language, or by attitudes ever changing in an effort to secure groups of yoters.

effort to secure groups of voters.

The present Administration has destroyed our influence The present Administration has destroyed our innuence abroad and humiliated us in our own eyes. The Republican party believes that a firm, consistent, and courageous foreign policy, always maintained by Republican Presidents in accordance with American traditions, is the best, as it is the only true way to preserve our peace and restore us to our rightful place among the nations. We believe in the pacific settlement of international disputes and favor the establishment of a world court for that purpose.

Mexico. We deeply sympathize with the fifteen million people of Mexico, who, for three years, have seen their country devastated, their homes destroyed, their fellow-citizens murdered, and their women outraged by atmed bands of desperadoes, led by self-seeking, conscienceless agitators, who, when temporarily successful in any locality, have neither sought nor been able to restore order or establish and maintain peace.

We express our horror and indignation at the outrages which

have been and are being perpetrated by these bandits upon American men and women, who were or are in Mexico by in-vitation of the laws and of the Government of that country, and whose rights to security of person and property are guaranteed by solemn treaty obligations. We denounce the indefensible methods of interference employed by this Administration in the internal affairs of Mexico, and refer with shame to its failure to discharge the duty of this country as next friend to its failure to discharge the duty of this country as next friend to Mexico, its duty to other Powers who have relied upon us as such friend, and its duty to our citizens in Mexico, in permitting the continuance of such conditions, first, by failure to act promptly and firmly, and, secondly, by lending its influence to the continuation of such conditions through recognition of one of the factions responsible for these outrages.

We pledge our aid in restoring order and maintaining peace in Mexico. We promise to our citizens on and near our border and to those in Mexico, wherever they may be found, adequate and absolute protection in their lives, liberty, and property.

Monroe Doctrine. We reaffirm our approval of the Monroe Doctrine, and declare its maintenance to be a policy of this country essential to its present and future peace and safety, and to the achievement of its manifest destiny.

Latin America. We favor the continuation of Republican policies, which will result in drawing more and more closely the commercial, financial, and social relations between this country and the countries of Latin America.

Philippines. We renew our allegiance to the Philippine policy inaugurated by McKinley, approved by Congress, and consistently carried out by Roosevelt and Taft. Even in this short time it has enormously improved the material and social conditions of the islands, given the Philippine people a constantly increasing participation in their Government, and, if persisted in, will bring still greater benefits in the future.

We accepted the responsibility of the islands as a duty to civilization and the Filipino people. To leave with our task half done would break our pledges, injure our prestige among nations, and imperil what already has been accomplished.

We condemn the Democratic Administration for its attempt to abandon the Philippines, which was prevented only by the vigorous opposition of Republican members of Congress, aided by a few patriotic Democrats.

Treaty with Russia. We reiterate our unqualified approval of the action taken in December, 1911, by the President proval of the action taken in December, 1911, by the Fresident and Congress to secure with Russia, as with other countries, a treaty that will recognize the absolute right of expatriation and prevent all discrimination of whatever kind between American citizens, whether native-born or alien, and regardless of race, religion, or previous political allegiance. We renew the pledge to observe this principle and to maintain the right of asylum, which is neither to be surrendered nor restricted, and asylum, which is nettier to be safetacted in restricted, and we unite in the cherished hope that the war which is now desolating the world may speedily end, with a complete and lasting restoration of brotherhood among the nations of the earth and the assurance of full equal rights, civil and religious, to all men in every land.

Protection of the Country. In order to maintain our peace and make certain the security of our people within our peace and make certain the security of our people within our own borders, the country must have not only adequate but thorough and complete national defence, ready for any emergency. We must have a sufficient and effective regular army and a provision for ample reserves, already drilled and disciplined, who can be called at once to the colors when the hour of danger comes

We must have a navy so strong and so well proportioned and equipped, so thoroughly ready and prepared that no enemy can gain command of the sea and effect a landing in force on either our Western or our Eastern coast. To secure these results we must have a coherent and continuous policy of national defence, which even in these perilous days the Demo-cratic party has utterly failed to develop, but which we promise to give to the country.

Tariff. The Republican party stands now, as always, in the fullest sense, for the policy of tariff protection to American industries and American labor, and does not regard an antidamping provision as an adequate substitute. Such protection should be reasonable in amount, but sufficient to protect adequately American industry and American labor, and be so adjusted as to prevent undue exactions by monopolies or Trusts. It should, moreover, give special aftention to securing the industrial independence of the United States, as in the case of dyestuffs.

Through wise tariff and industrial legislation our industries can be so organized that they will become not only a commercial

bulwark, but a powerful aid to national defence.

The Underwood Tariff act is a complete failure in every respect. Under its administration, imports have enormously increased, in spite of the fact that the intercourse with foreign countries has been largely cut off by reason of the war, while the revenues, of which we stand in such dire need, have been greatly revenues, of which we stand in such dire need, have been greatly reduced. Under the normal conditions which prevailed prior to the war, it was clearly demonstrated that this act deprived the American producer and the American wage-earner of that protection which entitled them to meet their foreign competitors, and, but for the adventitious conditions created by the war, would long since have paralyzed all forms of American industry and deprived American labor of its just reward. It has not in the least reduced the cost of living, which has constantly advanced from the date of its enactment. The welfare of our people demands its repeal and the substitution of a measure which, in peace, as well as in war, will produce ample revenue and give reasonable protection to all forms of American production in mine, forest, field, and factory.

We favor the creation of a Tariff Commission, with complete power to gather and compile information for the use of Con-

power to gather and compile information for the use of Con-

gress in all matters relating to the tariff.

Business. The Republican party has long believed in the rigid supervision and strict regulation of the transportation the fight supervision and strict regulation of the transportation and great corporations of the country. It has put its creed into its deeds, and all really effective laws regulating the railroads and the great industrial corporations are the work of Republican Congresses and Presidents. For this policy of regulation and supervision the Democrats, in a stumbling and piecemeal way, are undertaking to involve the Government in business which should be left within the critical property of the contractions of the strict in the contraction of the transportation of the tr should be left within the sphere of private enterprise and

NATIONAL REPUBLICAN PARTY PLATFORM 1916 (Continued)

indirect competition with its own citizens, a policy which is sure to result in waste, great expense to the taxpayer, and in

an inferior product.

The Republican party firmly believes that all who violate the laws in regulation of business should be individually the laws in regulation of business should be individually punished. But prosecution is very different from persecution, and business success, no matter how honestly attained, is apparently regarded by the Democratic party as in itself a crime. Such doctrines and beliefs choke enterprise and stifle prosperity. The Republican party believes in encouraging American business, as it believes in and will seek to advance all American interests.

Rural Credits. We favor an effective system of rural credits as opposed to the ineffective law proposed by the present Democratic Administration.

Rural Free Delivery. We favor the extension of the rural free delivery system and condemn the Democratic Administration for curtailing and crippling it.

Merchant Marine. In view of the policies adopted by all the maritime nations to encourage their shipping interests, and in order to enable us to compete with them for the occan-carrying trade, we favor the payment to ships engaged in the foreign trade of liberal compensation for services actually rendered in carrying the mails, and such further legislation as will build up an adequate American merchant marine and

as will build up an adequate American merchant marine and give us ships which may be requisitioned by the Government in time of national emergency.

We are utterly opposed to the Government ownership of vessels, as proposed by the Democratic party, because Government owned ships, while effectively preventing the development of the American merchant marine by private capital, will be entirely unable to provide for the vast volume of American freights, and will leave us more helpless than ever in the hard grip of foreign syndicates.

Transportation. Interstate and intrastate transportation has become so interwoven that the attempt to apply two, and often several, sets of laws to its regulation has produced conflicts of authority, embarrassment in operation, and inconvenience and expense to the public.

The entire transportation system of the country has become essentially national. We, therefore, favor such action by legislation, or, if necessary, through an amendment to the Constitution of the United States as will result in placing it under exclusive Federal control.

Economy and a National Budget. The increasing cost of the national Government, and the need for the greatest economy of its resources, in order to meet the growing demands of the people for Government service, call for the severest condemnation of the wasteful appropriations of this Democratic Administration, of its shameless raids on the Treasury, and of its opposition to and rejection of President Taft's oft-repeated recognized and carnets efforts to accuracy and efficiency. proposals and earnest efforts to secure economy and efficiency through the establishment of a simple, business-like

budget system, to which we pledge our support, and which we hold to be necessary to effect a needed reform in the administration of national finances.

Conservation. We believe in a careful husbandry of all the natural resources of the nation—a husbandry which means development without waste, use without abuse.

Civil Service Reform. The Civil Service law has always been sustained by the Republican Party, and we renew our repeated declaration that it shall be thoroughly and honestly enforced and extended wherever practicable. The Democratic Party has created since March 4, 1913, 30,000 offices outside of the Civil Service law, at an annual cost of \$44,000,000 to the taxpayers of the country.

We condemn the gross abuse and the misuse of the law by the present Democratic Administration and pledge ourselves to a reorganization along lines of efficiency and economy.

Territorial Matters. Territorial Matters. Reaffirming the attitude long maintained by the Republican Party, we hold that officials appointed to administer the Government of any territory should be bona-fide residents of the territory in which their duties are to be performed.

Labor Laws. We pledge the Republican Party to the faithful enforcement of all Federal laws passed for the protection of labor. We favor vocational education, the enactment and rigid enforcement of a Federal child labor law, the enactand rigid enforcement of a Federal child labor law, the enactment of a generous and comprehensive workmen's compensation law, within the commerce power of Congress, and an accident compensation law covering all Government employees. We favor the collection and collation under the direction of the Department of Labor of complete data relating to industrial hazards for the information of Congress, to the end that-such legislation may be adopted as may be calculated to secure the safety, conservation, and protection of labor from the dangers incident to industry and transportation. incident to industry and transportation.

Suffrage. The Republican Party, reaffirming its faith of Government of the people, by the people, for the people, as a measure of justice to one-half of the adult people of this country, favors the extension of the suffrage to women, but recognizing the right of each State to settle this question for itself.

itself.

Such are our principles, such are our purposes and policies. We close as we began. The times are dangerous, and the future is fraught with peril. The great issues of the day have been confused by words and phrases. The American spirit, which made the country and saved the Union has been forgotten by those charged with the responsibility of power. We appeal to all Americans, whether naturalized or native born, to prove to the world that we are Americans in thought and in deed, with one loyalty, one hope, one aspiration. We call on all Americans to be true to the spirit of America, to the creat traditions of their common country, and, above all things, great traditions of their common country, and, above all things, to keep the faith.

NATIONAL DEMOCRATIC PLATFORM—1916

The Democratic Party in national convention assembled adopted the following declaration to the end that the people of the United States may both realize the achievements wrought by four years of Democratic administration and be apprised of the policies to which the party is committed for the further conduct of national affairs.

Record of Achievement. We indorse the administration of Woodrow Wilson. It speaks for itself. It is the best exposition of sound democratic policy at home and abroad. We challenge comparison of our record, our keeping of pledges,

and our constructive legislation, with those of any party of any

time.

We found our country hampered by special privilege, a vicious tariff, obsolete banking laws, and an inelastic currency. Our foreign affairs were dominated by commercial interests for their selfish ends. The Republican Party, despite repeated pledges, was impotent to correct abuses which it had fostered. Under our administration, under a leadership which has never faltered,

these abuses have been corrected, and our people have been freed therefrom.

freed therefrom.

Our archaic banking and currency system, prolific of panic and disaster under Republican administrations—long the refuge of the Money Trust—has been supplanted by the Federal Reserve act, a true democracy of credit under Government control, already proved a financial bulwark in a world crisis, mobilizing our resources, placing abundant credit at the disposal of legitimate industry and making a currency panic impossible.

We have created a Federal trade commission to accommodate the perplexing questions arising under the anti-trust laws so that monopoly may be strangled at its birth and legitimate industry encouraged. Fair competition in business is now

We have effected an adjustment of the tariff, adequate for revenue under peace conditions, and fair to the consumer and to the producer. We have adjusted the burdens of taxation so that swollen incomes bear their equitable share. Our revenues have been sufficient in times of world stress, and will largely exceed

the expenditures of the current fiscal year.

We have lifted human labor from the category of commodities and have secured to the workingman the right of voluntary association for his protection and welfare. We have protected the rights of the laborer against the unwarranted issuance of writs of injunction, and have guaranteed to him the right of trial by jury in cases of alleged contempt committed outside of the presence of the court.

We have advanced the parcel post to genuine efficiency, enlarged the postal savings system, added 10,000 rural delivery routes and extensions, thus reaching 2,500,000 additional people, improved the postal service in every branch, and for the first time in our history, placed the Post Office system on a self-supporting basis, with actual surplus in 1913, 1914, and 1915.

Economic Reforms. The reforms which were most obviously needed to clear away privilege, prevent unfair discrimination, and release the energies of men of all ranks and advantages, have been effected by recent legislation. We must now remove, so far as possible, every remaining element of unrest and uncertainty from the path of the business men of America, and secure for them a continued period of quiet, assured and confident prosperity.

Tariff. We reaffirm our belief in the doctrine of a tariff for the purpose of providing sufficient revenue for the operation of the purpose of providing summent revenue for the operation of the Government economically administered, and unreservedly indorse the Underwood Tariff law as truly exemplifying that doctrine. We recognize that tariff rates are necessarily subject to change to meet changing conditions in the world's production and trade. The events of the last two years have brought about and trade. The events of the last two years have brought about many momentous changes. In some respects their effects are yet conjectural and wait to be disclosed, particularly in regard to our foreign trade. Two years of a war which has directly involved most of the chief industrial nations of the world, and which has indirectly affected the life and industry of all nations, are bringing about economic changes more varied and fare bringing about economic changes more varied and fare are bringing about economic changes more varied and far-reaching than the world has ever before experienced. In order to ascertain just what those changes may be, the Democratic Congress is providing for a non-partisan tariff commission to make impartial and thorough study of every economic fact that may throw light, either upon our past or upon our future fiscal policy with regard to the imposition of taxes on imports or with regard to the changed and changing conditions under which our trade is carried on. We cordially indorse this timely proposal and declare ourselves in sympathy with the principle and purpose of shaping legislation within that field in accordance with clearly established facts rather than in accordance with the demands of selfish interests or upon information provided largely, if not exclusively, by them. largely, if not exclusively, by them.

largely, if not exclusively, by them.

Americanism. The part that the United States will play in the new day of international relationships which is now upon us will depend upon our preparation and our character. The Democratic Party, therefore, recognizes the assertion and tritumphant demonstration of the indivisibility and coherent strength of the nation as the supreme issue of this day in which the whole world faces the crisis of manifold change. It summons all men, of whatever origin or creed, who would count themselves Americans, to join in making clear to all the world the unity and consequent power of America.

This is an issue of patriotism. To taint it with partisanship would be to defile it. In this day of test, America must show itself, not a nation of partisans, but a nation of patriots. There is gathered here in America the best of the blood, the industry, the genius of the whole world, the elements of a great race and a magnificent society to be melted into a mighty and splendid nation.

nation. Whoever, actuated by the purpose to promote the interest of a foreign power, in disregard of our own country's welfare, or to injure this Government in its foreign relations or cripple or destroy its industries at home, and whoever by arousing prejudices of a racial, religious, or other nature creates discord and strife among our people so as to obstruct the wholesome process of unification, is faithless to the trust which the privileges of citizenship repose in him and disloyal to his country.

We, therefore, condemn as subversive of this nation's unity and integrity, and as destructive of its welfare, the activities and designs of every group or organization, political or otherwise, that has for its object the advancement of the interest of a foreign power, whether such object is promoted by intimidating

the Government, a political party, or representatives of the people, or which is calculated and tends to divide our people into antagonistic groups and thus to destroy that complete agreement and solidarity of the people and that unity of sentiment and national purpose so essential to the perpetuity of the nation and its free institutions.

We condemn all alliances and combinations of individuals in this country of whatever nationality or descent, who agree and conspire together for the purpose of embarrassing or weakening conspire together for the purpose of embarrassing or weakening our Government or of improperly influencing or coercing our public representatives in dealing or negotiating with any foreign power. We charge that such conspiracies among a limited number exist and have been instigated for the purpose of advancing the interests of foreign countries to the prejudice and detriment of our own country. We condemn any political party which, in view of the activity of such conspirators, surrenders its integrity or modifies its policy.

which, in view of the activity of such conspirators, surrenders its integrity or modifies its policy.

Preparedness. Along with the proof of our character as a nation must go the proof of our power to play the part that legitimately belongs to us. The people of the United States love peace. They respect the rights and covet the friendship of all other nations. They desire neither any additional territory nor any advantage which cannot be peacefully gained by their skill, their industry, or their enterprise; but they insist upon having absolute freedom of national life and policy, and feel that they owe it to themselves and to the role of spirited independence which it is their sole ambition to play that they should render themselves secure against the hazard of interference from any quarter, and should be able to protect their rights upon the seas or in any part of the world. We, therefore, favor the maintenance of an army fully adequate to the requirements of order, of safety, and of the protection of the nation's rights, the fullest development of modern methods of seacoast defense and the maintenance of an adequate reserve of citizens trained to arms and prepared to safeguard the people and territory of the United States against any danger of hostile action which may unexpectedly arise; and a fixed policy for the continuous development of a navy worthy to support the great naval traditions of the United States hopes and expects to take part in performing. The plans and enactments of the present Congress afford substantial proof of our purpose in this exigent matter.

International Relations. The Democratic administration has throughout the present was executed and expects in the advance of a consent of the present and excess afford substantial proof of the present was executed and excess afford substantial proof of the present are executed and excess afford substantial proof of the present are executed and excess afford substantial proof of the present are executed and excess afford substantial proof of the

which the United States nopes and expects to take part in performing. The plans and enactments of the present Congress afford substantial proof of our purpose in this exigent matter.

International Relations. The Democratic administration has throughout the present war scrupulously and successfully held to the old paths of neutrality and of the peaceful pursuit of the legitimate objects of our national life, which statesmen of all parties and creds have prescribed for themselves in America since the beginning of our history. But the circumstances of the last two years have revealed necessities of international action which no former generation can have fo.escen. We hold that it is the duty of the United States to use its power, not only to make itself safe at home, but also to make secure its just interests throughout the world, and both for this end and in the interest of humanity, to assist the world in securing settled peace and justice. We believe that every people has the right to choose the sovereignty under which it shall live; that the small States of the world have a right to enjoy from other nations the same respect for their sovereignty and for their territorial integrity that great and powerful nations expect and insist upon; and that the world has a right to be free from every disturbance of its peace that has its origin in aggression or disregard of the rights of peoples and nations; and we believe that the time has come when it is the duty of the United States to join with the other nations of the world in any feasible association that will effectively serve these principles, to maintain involate the complete security of the highway of the seas for the common and unhindered use of all nations.

The present Administration has consistently sought to act upon and realize in its conduct of the foreign affairs of the nation the principle that should be the object of any association of the aations formed to secure the peace of the world and the maintenance of national and individual rights. It has foll

the just settlement of commercial claims. It has made the honor and ideals of the United States its standard alike in negotiation

Pan-American Accord. We recognize now, as we have always recognized, a definite and common interest between the United States with the other peoples and republics of the Western Hemisphere in all matters of national independence and free political development. We favor the establishment and maintenance of the closest relations of amity and mutual help-fulness between the United States and the other republics of the American Continents for the support of peace and the promotion of a common prosperity. To that end we favor all measures which may be necessary to facilitate intimate intercourse and promote commerce between the United States and her neighbors to the south of us, and such international understandings as may be practicable and suitable to accomplish these ends.

We commend the action of the Democratic Administration in holding the Pan-American Financial conference at Washington Pan-American Accord. We recognize now, as we have

We commend the action of the Democratic Administration in holding the Pan-American Financial conference at Washington in May, 1915, and organizing the International High Com-mission, which represented the United States in the recent meeting of representatives of the Latin-American republics at Buenos Ayres, April, 1916, which have so greatly promoted the friendly relations between the people of the Western Hemi-

sphere.

Mexico. The Monroe Doctrine is reasserted as a principle of Democratic faith. That doctrine guarantees the independent republics of the two Americas against aggression from another continent. It implies, as well, the most scrupulous regard upon our part for the sovereignty of each of them. The want of a stable, responsible Government in Mexico, capable of repressing and punishing marauders and bandit bands, who have not only taken the lives and seized and destroyed the property of American citizens in that country, but have insolently invaded our soil, made war upon and murdered our people thereon, has rendered it necessary temporarily to occupy, by our armed forces, a portion of the territory of that friendly State. Until, by the restoration of law and order therein, a repetition of such incursions is improbable, the necessity for their remaining will continue. Intervention, implying as it does military subjugation, is revolting to the people of the United States, notwithstanding the provocation to that course has been great, and should be resorted to, if at all, only as a last resort. The stubborn resistance of the President and his advisers to every demand and suggestion to enter upon it, is credible alike to them and to the people in whose name he speaks.

Merchant Marine. Immediate provision should be made Mexico. The Monroe Doctrine is reasserted as a principle

and to the people in whose name he speaks.

Merchant Marine. Immediate provision should be made for the development of the carrying trade of the United States. Our foreign commerce has in the past been subject to many unnecessary and vexatious obstacles in the way of legislation of Republican Congresses. Until the recent Democratic tariff legislation it was hampered by unreasonable burdens of taxation. Until the recent beanking legislation, it had at its disposal few of the necessary instrumentalities of international credit and exchange. Until the formulation of the pending act to promote the construction of a merchant marine it lacked even the prospect of adequate carriage by sea. We heartily indorse the purposes and policy of the pending shipping bill and favor all such additional measures of constructive or remedial legislation as may be necessary to restore our flax to the seas and to provide as may be necessary to restore our flag to the seas and to provide further facilities for our foreign commerce, particularly such laws as may be made to remove unfair conditions of competition in the dealings of American merchants and producers with competitors in foreign markets.

Conservation. For the safeguarding and quickening of the life of our own people we favor the conservation and development of the natural resources of the country through a policy which shall be positive rather than negative—a policy which shall not withhold such resources from development but which, while permitting and encouraging their use, shall prevent both waste and monopoly in their exploitation, and we earnestly favor the passage of acts which will accomplish these objects and we reafirm the declaration of the platform of 1912 on this subject. The policy of reclaiming our arid lands should be steadily adhered to. Conservation. For the safeguarding and quickening of

The Administration and the Farmer. We favor the vigorous prosecution of investigations and plans to render agri-culture more profitable and country life more healthful, com-fortable and attractive, and we believe that this should be a dominant aim of the nation as well as of the States. With all its recent improvement, farming still lags behind other occupations

in development as a business, and the advantages of an advancing civilization have not accrued to rural communities in a fair proportion. Much has been accomplished in this field under the proportion. Much has been accomplished in this field under the present. Administration—far more than under any previous Administration. In the Federal Reserve act of the last Congress, and the Rural Credits act of the present Congress, the machinery has been created which will make credit available to the farmer nas been treated which will have the constantly and readily and he has at last been putupon a footing of equality with the merchant and the manufacturer in securing

constantly and readily anothe has at last been purion a focusion of equality with the merchant and the manufacturer in securing the capital necessary to carry on his enterprises. Grades and standards necessary to the intelligent and successful conduct of the business of agriculture have also been established, or are in the course of establishment by law.

The long-needed Cotton Futures act, passed by the Sixtythird Congress, has now been in successful operation for nearly two years. A Grain Grades bill, long needed, and a permissive Warehouse bill, intended to provide better storage facilities and to enable the farmer to obtain certificates upon which he may secure advances of money, have been passed by the House of Representatives, have been favorably reported to the Senate and will probably become law during the present session of the Congress. Both houses have passed a good roads measure, which will be of far-reaching benefit to all agricultural communities. Above all, the most extraordinary and significant progress has been made, under the direction of the Department of Agriculture in extending and perfecting practical farm demonstration work which is so rapidly substituting scientific for empirical farming. But it is also necessary that rural activities should be better But it is also necessary that rural activities should be better directed through co-operation and organization, that unfair methods of competition should be eliminated and the condi-tions requisite for the just, orderly, and economical marketing of farm products created.

We approve the Democratic Administration for having emphatically directed attention for the first time to the essential interests of agriculture involved in farm marketing and finance, for creating the office of markets and rural organization in connection with the Department of Agriculture and for extending the strength of the control of the contro connection with the Department of Agriculture and for extending the co-operative machinery necessary for conveying information to farmers by means of demonstrations. We favor continued liberal provision, not only for the benefit of production, but also for the study and solution of problems of farm marketing and finance and for the extension of existing agencies for

improving country life.

Good Roads. The happiness, comfort and prosperity of rural life, and the development of the city, are alike conserved by the construction of public highways. We, therefore, favor national aid in the construction of post roads and roads for military purposes.

Government Employment. We hold that life, health, and strength of the men, women, and children of the nation are its greatest asset and that in the conservation of these the Federal Government, wherever it acts as the employer of labor, should both on its own account and as an example, put into effect the following principles of just employment:

1. A living wage for all employes.

A working day not to exceed eight hours, with one day of rest in seven.

3. The adoption of safety appliances and the establishment of thoroughly sanitary conditions of labor.

4. Adequate compensation for industrial accidents.

5. The standards of the "Uniform Child Labor Law," wherever minors are employed.

Such provisions for decency, comfort, and health in the employment of women as should be accorded the mothers of the

7. An equitable retirement law providing for the retirement of superannuated and disabled employes of the civil service to the end that a higher standard of efficiency may be maintained.

We believe also that the adoption of similar principles should be urged and applied in the legislation of the States with regard to labor within their borders, and that through every possible agency the life and health of the people of the nation should be conserved.

Labor. We declare our faith in the Seamen's act, passed by the Democratic Congress, and we promise our earnest contin-uance of its enforcement.

We favor the speedy enactment of an effective Federal Child Labor law and the regulation of the shipment of prison-made goods in interstate commerce.

We favor the creation of a Federal bureau of safety in the Department of Labor, to gather facts concerning industrial hazards and to recommend legislation concerning the maining and killing of human beings

We favor the extension of the powers and functions of the

Federal Bureau of Mines.

We favor the development upon a systematic scale of the means already begun under the present Administration to assist laborers throughout the nation to seek and obtain employment, and the extension by the Federal Government of the same assistance and encouragement as is now given to agricultural training.

We heartily commend our newly established Department of Labor for its excellent record in settling industrial strikes by

personal advices and through conciliating agents.

Public Health. We favor a thorough reconsideration of the means and methods by which the Federal Government handles questions of public health, to the end that human life may be conserved by the elimination of loathsome diseases, the improvement of sanitation and the diffusion of a knowledge of

improvement of samulations of the Federal Government of disease prevention.

We favor the establishment by the Federal Government of tubercular patients.

Senate Rules. We favor such an alteration of the rules of the United States as will permit the prompt transaction of the nation's legislative business.

Economy and the Budget. We demand careful economy in all expenditures for the support of the Government, and to that end favor a return by the House of Representatives to its former practice of initiating and preparing all appropria-tion bills through a single committee chosen from its membership, in order that responsibility may be centred, expenditures standardized and made uniform, and waste and duplication in the public service as much as possible avoided. We favor this as a practicable first step toward a budget system.

Civil Service. We reaffirm our declarations for the rigid enforcement of the civil service laws.

Philippine Islands. We heartily indorse the provisions of the bill recently passed by the House of Representatives, further promoting self-government in the Philippine Islands as being in fulfillment of the policy declared by the Democratic Party in its last national platform, and we reiterate our indorsement of the purpose of ultimate independence for the Philippine Islands and the purpose of ultimate independence for the Philippine Islands. pine Islands, expressed in the preamble of that measure.

Woman Suffrage. We recommend the extension of the franchise to the women of the country by the States upon the same terms as to men.

Protection of Citizens. We again declare the policy that the sacred rights of American citizenship must be preserved at home and abroad, and that no treaty with any other Government shall receive the sanction of our Government which does not expressly recognize the absolute equality of all our citizens, irrespective of race, creed, or previous nationality, and which does not recognize the right of expatriation. The American Government should protect American citizens in their rights not only at home but abroad, and any country having a Government should be held to strict accountability maying a Government should be held to strict accountability for any wrongs done them, either to person or property. At the earliest practical opportunity, our country should strive earnestly for peace among the warring nations of Europe and seek to bring about the adoption of the fundamental principle of justice and humanity, that all men shall enjoy equality of right and freedom from discrimination in the lands wherein they dwell.

Prison Reform. We demand that the modern principles of prison reform be applied in our Federal penal system. We favor such work for prisoners as shall give them training

in remunerative occupations, so that they may make an honest in remunerative occupations, so that they may make an honest living when released from prison; the setting apart of the net wages of the prisoner to be paid to his dependent family or to be reserved for his own use upon his release; the liberal extension of the principles of the Federal Parole law, with due regard both to the welfare of the prisoner and the interests of society; the adoption of the probation system, especially in the case of first offenders not convicted of serious crimes.

Pensions. We renew the declarations of recent Democratic platforms relating to generous pensions for soldiers and their widows, and call attention to our record of performance.

their widows, and call attention to our record of performance.

in this particular.

Waterways and Flood Control. We renew the declaration in our last two platforms relating to the development of our waterways. The recent devastation of the Lower ment of our waterways. The recent devastation of the Lower Mississippi Valley and several other sections by floods accentuates the movement for the regulation of river flow by additional bank and levee protection below and diversion, storage, and control of the flood waters above, and their utilization for beneficial purposes in the reclamation of arid and swamp for beneficial purposes in the reclamation of arid and swamp lands, and development of water power, instead of permitting the floods to continue as heretofore, agents of destruction. We hold that the control of the Mississippi River is a national problem. The preservation of the depth of its waters for purposes of navigation, the building of levees and works of bank protection to maintain the integrity of its channel and prevent the overflow of its valley resulting in the interruption of interstate commerce, the disorganization of the mail service and the enormous loss of life and property, impose an obligation which alone can be discharged by the national Government.

We favor the adoption of a liberal and convertensive plan

We favor the adoption of a liberal and comprehensive plan for the development and improvement of our harbors and inland waterways with economy and efficiency, so as to permit their navigation by vessels of standard draught.

Alaska. It has been and will be the policy of the Democratic Party to enact all laws necessary for the speedy development of Alaska and its great natural resources.

We favor granting to the people of Alaska, Hawaii, and Porto Rico the traditional Territorial Government accorded to all Territories of the United States since the beginning of our Government and we believe the officials appointed to administer the Government of those several Territories should be qualified by previous bona fide residence.

Candidates. We unreservedly indorse our President and Vice President, Woodrow Wilson of New Jersey and Thomas Riley Marshall of Indiana, who have performed the functions of their great offices faithfully and impartially and with distinguished ability.

In particular, we commend to the American people the splendid diplomatic victories of our great President, who has preserved the vital interests of our Government and its citizens,

and kept us out of war.

Woodrow Wilson stands today the greatest American of his generation.

generation. Conclusion. This is a critical hour in the history of America, a critical hour in the history of the world. Upon the record above set forth which shows great constructive achievement in following out a consistent policy for our domestic and internal development; upon the record of the Democratic Administration, which has maintained the honor, the dignity, and the interests of the United States, and at the same time retained the respect and friendship of all the nations of the world, and upon the great policies for the future strengthening of the life of our country, the enlargement of our national vision and the ennobling of our international relations, as set forth above, we appeal with confidence to the voters of the country. country.

TELLING DISTANCE BY SOUND

There is an old saying that if you can count five between the

There is an old saying that it you can count five between the flash and thunder you are safe. Modern science tells us that if you can see the flash at all you are safe, because if it struck you you would have no time to see it. The speed of lightning is about 180 times that of sight.

The old idea was that if you could count five the storm was a mile away, which was considered a safe distance. Sound travels at the rate of 1,142 feet a second, or about a mile in five seconds. In order to count seconds accurately many photographers start by saying to themselves: "No one thou-

sand, one one thousand, two one thousand, three one thousand," etc. This gives about the right space between each count of one, two, three, etc., if you stop at the number of seconds you want to time. With a little practice with a watch beside you this is accurate up to half a minute or more. If you hear a steam whistle blowing and note the instant it stops you can count the seconds until you lose the sound, and by allowing a fifth of a mile for each second you can judge the distance. The same is true of guns, or an explosion, or even of hammering, or any loud sounds.

VOTE FOR PRESIDENT 1012

			I OK I	RESIL	DENI,	1912				
	EL.	ECTO:			,	POPU	LAR VOI	E.		
State	Re- pub- lican.	Dem- ocrat- ic.		Republi- can.	Democrat.	Progres-	Prohibi-	Socialist.	Socialist Labor.	Total.*
Alabama Arizona Arkansas. California Colorado. Connecticut Delaware. Florida. Georgia Idaho. Illinois. Indiana Iowa. Kansas. Kentucky Louisiana Maine Maryland Massachusetts Michigan. Minesota.		3 9 2 6 7 3 6 14 4 29 15 13 10 6 8 18	15 12	3,021 24,467 3,914 58,386 68,324 15,997 4,279 5,191 32,810 253,593 151,267 119,805 74,845 115,512 3,834	82,438 10,324 68,838 283,436 114,232 74,561 22,631 36,417 93,076 33,921 405,048 281,890 185,325 143,663 219,584 60,971 51,113 112,674 173,408 150,751 106,426	22,680 6,949 21,673 283,610 72,306 34,129 8,886 4,535 21,980 25,527 162,007 161,819 120,210 102,766 9,323 48,495 57,789 142,228 214,584	265 898 23,366 5,003 2,068 623 1,854 147 1,537 15,710 19,249 8,440 3,233 946 2,244 2,754 8,934 7,886	3,029 3,163 8,153 79,201 16,418 10,056 4,806 1,026 11,960 81,278 36,931 16,967 77,71 11,647 5,249 2,541 3,996 12,616 23,211 27,505	4,066 3,130 956 322 1,102 1,252 2,212	117,879 23,722 124,029 673,527 266,880 190,398 48,693 51,891 121,420 105,755 654,474 492,356 481,009 338,186 79,377 129,640 231,981 488,056 550,976 334,219
Mississippi. Missouri Montana Nebraska Nevada New Hampshire New Hersey New Mexico New York North Carolina North Dakota Ohio Oklahoma Oregon Pennsylvania Rhode Island South Carolina South Dakota Tennessee Texas Utah Vermont Virginia Washington West Virginia Wisconsin Wyoming	4	10 18 4 8 3 4 14 13 45 12 5 24 10 5 5 9	38 5	1,596 207,821- 18,512 54,029 3,196 32,927 88,834 17,900 455,428 29,139 23,090 278,168 34,673 273,305 27,703 536 59,444 26,745 42,100 23,332 23,288 70,445 56,667 130,695 14,550	57,227 330,746 27,941 109,008 34,724 170,282 22,139 655,475 144,507 29,555 424,834 119,156 47,064 395,619 30,412 48,357 48,942 130,335 219,489 36,579 15,354 90,332 86,840 113,046 113,046 1164,228 15,310	3,645 124,371 22,456 72,614 5,620 17,794 145,409 8,347 390,021 69,667 25,726 229,807 37,600 447,426 16,878 1,293 58,811 53,725 28,530 24,174 22,132 21,132 21,137 762,460 9,232	5,380 32 3,383 535 2,875 19,427 1,025 1,243 11,511 2,185 4,360 19,533 616 3,910 825 1,698 1,095 709 9,810 4,534 8,586 4,34	2,061 28,466 10,885 10,174 3,313 1,980 15,900 2,859 63,381 107 6,966 90,144 41,674 13,343 80,915 2,049 164 4,662 3,492 24,896 9,023 9,023 9,023 9,023 3,381 15,336 3,381 15,336 3,381 15,336 3,381 15,336 16,336 16,	1,778 1,322 4,251 2,630 704 236 430 509 50 1,872 522	64,528 698,562 79,826 249,208 20,115 87,560 424,622 51,245 1,587,983 244,455 86,580 1,337,094 253,801 137,040 1,217,502 50,350 116,325 247,821 301,788 112,385 62,841 136,976 322,799 268,560 399,972 42,296
Total		435 347	88	3,483,922	6,286,214 2,160,194	4,126,020	208,923	897,011	29,079	15,031,169

*Tigures do not include blank or void ballots or votes cast for names not appearing on any of the electoral tickets specified in the table.

HUDSON RIVER BRIDGE, A POSSIBILITY
The tallest bridge towers in the world will loom over the Hudson when the States of New York and New Jersey erect the great suspended roadway that is now being planned. From bedrock to pinnacle the twin towers will be 745 feet high, only 255 feet short of the height of the Eiffel Tower. Their height over water will be 600 feet.

The New York State Bridge Commission came to the conclusion that the best place to locate a bridge would be between Fifty-seventh and Fifty-eighth Streets in Manhattan, from Ninth Avenue to the Boulevard in Weehawken. It is suggested also that a bridge could be built across the Hudson at 110th Street and that 179th Street at Fort Washington Park would be another excellent location.

As the plans stand now a bridge 8,330 feet long is to be built.

It will clear the river by 170 feet and will have two driveways each thirty-six feet wide, and two sidewalks each eight feet wide, in addition to the roadways for trolley cars.

The system of tunnels to be built in connection with improving communication between New York and New Jersey will run between Canal Street in Manhattan and Twelfth Street in Jersey City. There are to be twin tunnels for vehicles with roadways seventeenfeet wide. The tunnels will cost \$11,000, 000, it is estimated.

The commission finds that there is an average traffic of 5,000,000 vehicles a year between New York and New Jersey and that the daily weekday traffic is about 19,660 vehicles. The proposed tunnels would take care of most of this traffic and would be, the engineers say, an immense saving to merchants and manufacturers.

**	P			VOTE 1860-1912 Year and Total Elect.
Year and Party	Candidate and State	Vote	Elect.	
	Cameraneo ana como			
1860	Annual Transparate Till	1 866 252	180	1892 Dem Grover Cleveland, N. Y 5,554,414 277
Dem	ABRAHAM LINCOLN, Ill Stephen A. Douglas, Ill	1,375,157	12	Rep Ben. Harrison, Ind 5,190,802 145
	J. C. Breckenridge, Ky		72	Peop James B. Weaver, Iowa 1,027,329 22
	John Bell, Tenn		39	Prohib John Bidwell, Cal
1864				Soc. Lab Simon Wing, Mass 21,164
	ABRAHAM LINCOLN, Ill		*212	1896 Rep William McKinley, Ohio 7,035,638 271
Dem	George B. McClellan, N. J	. 1,808,725	21	TO STRUCK T Down RT-L)
1868				Peop William J. Bryan, Neb \ 0,407,940
Rep	U. S. GRANT, III	. 3,015,071	†214	Prohib Joshua Levering, Md 141,676
Dem	Horatio Seymour, N. Y	. 2,709,615	80	NatDem. John M. Palmer, Ill 131,529
1872				Soc. Lab Charles H. Matchett, N. Y 36,454 Nat Charles E. Bentley, Neb 13,969
Rep	U. S. GRANT, III	. 3,597,070	286	1900
D. & Lib. R.	Horace Greeley, N. Y	. 2,834,079		Rep WILLIAM McKinley, Ohio 7,219,530 292
Dem	Charles O'Conor, N. Y	. 29,408		Dem William J. Bryan, Neb 6,358,071 155
1emp	James Black, Pa	ە00رق ،		Prohib John G. Woolley, Ill 209,166
1876				AF.Peop. Wharton Barker, Pa 50,373 Soc. Dem. Eugene V. Debs, Ind 96,768
	RUTHERFORD B. HAYES, O			Soc. L Jos. F. Malloney, Mass 32,751
	Samuel J. Tilden, N. Y Peter Cooper, N. Y			U. Christian J. F. R. Leonard, Iowa 1,059
	Green Clay Smith, Ky			U. Reform Seth H. Ellis, Ohio 5,698
	James B. Walker, Ill			1904 N. W. 7.628.934 336
1880				Rep THEODORE ROOSEVELT, N. Y 7,628,834 336 Dem Alton B. Parker, N. Y 5,084,491 140
	JAMES A. GARFIELD, Ohio		214	Soc Eugene V. Debs, Ind 402,460
	W. S. Hancock, Pa			Prohib Silas C. Swallow, Pa 259,257
	James B. Weaver, Iowa Neal Dow, Me			Peop Thomas E. Watson, Ga 114,753
	John W. Phelps, Vt			Soc. L Charles H. Corregan, N. Y 33,724
	John Williams Company			1908 Rep William H. Taft, Ohio 7,679,006 321
1884	GROVER CLEVELAND, N. Y	4 011 017	219	Dem William J. Bryan, Neb 6,409,106 162
	James G. Blaine, Me		182	Soc Eugene V. Debs, Ind 420,820
	John P. St. John, Kan			Prohib Eugene W. Chafin, Ill 252,683
Greenback .	Benj. F. Butler, Mass	133,825		Ind. League. Thos. L. Hisgen, Mass 83,562
1888				Peop
	BENJAMIN HARRISON, Ind	5,444,337	233	1912
Dem	Grover Cleveland, N.Y	5,540,050	168	Dem Woodrow Wilson, N. J 6,293,019 435
	Clinton B. Fisk, N. J.			Rep William H. Taft, Ohio 3,484,956
	A. J. Streeter, Ill		• • • •	Prog. Theodore Roosevelt, N. Y. 4,119,507 88
Amer	R. H. Cowdry, Ill Jas. L. Curtis, N. Y	1,591		Soc Eugene V. Debs, Ind
Soc	Jan 21 Outling 14: I	2,063		Soc. L Arthur E. Reimer, Mass. 29,259
	oting possessed an electoral vo			s not voting possessed an electoral vote of 23.

VOTE FOR PRESIDENT, 1908

State	EL. VOTE POPULAR VOTE		STATE	EL.	Vote	Po	POPULAR VOTE				
	Taft, Rep.	Bryan, Dem.	Taft, Rep.	Bryan, Dem.	Debs, Soc.		Taft, Rep.	Bryan, Dem.	Taft, Rep.	Bryan, Dem.	Debs, Soc.
Alabama. Arkansas California Colorado. Connecticut Delaware. Florida. Georgia Idaho. Illinois. Indiana. Iowa. Kansas. Kentucky. Louisiana. Maine. Maryland. Massachusetts. Michigan Minnesota. Mississippi Missouri. Montana.	3 27 15 13 10 6 2 16 14 11 18 3	11 9 .5 .5 13 	25,308 56,760 214,398 123,700 112,915 25,014 10,654 41,692 52,621 629,929 318,993 275,210 197,216 235,711 8,958 66,987 116,513 265,966 335,580 195,843 4,363 347,203	68,255 22,071 31,104 72,413 36,162 450,795 338,262 200,771 161,209 244,092 63,568 35,403 115,908 155,543 175,771 170,401 60,287 346,574 29,326	5,842 28,659 7,974 5,113 29,33,747 584 6,400 34,691 13,476 8,287 12,420 4,600 2,538 1,758 2,233 10,781 11,586 14,527 978 15,481 5,885 5,885	New York North Carolina North Dakota Ohio Oklahoma Oregon Pennsylvania Rhode Island South Carolina South Dakota Tennessee Texas Utah Vermont Virginia Wash ngton West Virginia Wisconsin Wyoming	4 34 4 3 4 7 13 3	12 	53,149] 205,326 870,070 114,937 57,680 572,312 110,474 62,530 745,779 43,942 3,965 67,536 118,324 65,666 61,028 39,552 32,573 106,062 137,869 247,747 20,846	42,601 11,496 82,946 58,691 111,418 166,632 14,918	
Nebraska Nevada	1 ::	3	126,997 10,775			Plurality	159		1,269,900	*****	1

PRESIDENTS OF UNITED STATES

_	Name	Born	Native State	Age at Election	State from which Elected	Years of Service	Died	Age at Death
1 2 3 3 4 4 5 5 6 6 7 7 8 9 100 11 1 12 1 3 3 1 4 4 1 5 5 1 6 6 1 7 1 8 1 9 2 0 2 1 1 2 2 2 3 2 4 2 5 5 6	Franklin Pierce. James Buchanan Abraham Lincoln. Andrew Johnson. Ulysses S. Grant. Rutherford B. Hayes. James A. Garfield. Chester A. Arthur Grover Cleveland. Benjamin Harrison Grover Cleveland. William McKinley	Oct. 30, 1735 April 1, 1743 Mch. 16, 1751 April 28, 1758 July 11, 1767 Mch. 15, 1767 Dec. 5, 1782 Feb. 9, 1773 Mch. 29, 1790 Nov. 21, 1795 Sept. 24, 1784 Feb. 7, 1800 Nov. 23, 1804 April 23, 1791 Feb. 12, 1809 Dec. 29, 1808 April 27, 1822 Oct. 4, 1822 Nov. 19, 1831 Oct. 5, 1830 Mch. 18, 1837 Aug. 20, 1833 Mch. 18, 1837 Aug. 20, 1833 Mch. 18, 1837 Jan. 29, 1843	Virginia Mass Virginia Virginia Virginia Virginia Mass N. Carolina New York Virginia Virginia Virginia N. Car Virginia New York N. H Penn Kentucky N. Carolina Ohio Ohio Ohio Ohio Vermont N. Jersey Ohio	61 57 57 58 57 61 54 64 54 65 52 54 65 54 54 55 54 55 55 55 57 65 65 65 65 65 65 65 65 65 65 65 65 65	Virginia. Mass. Virginia. Virginia. Virginia. Virginia. Mass. Tenn. New York. Ohio. Virginia. Tenn. La. New York. N. H. Penn. Illinois. Tenn. Illinois. Ohio. Ohio. New York. New York. New York. New York. New York. New York. Indiana. New York. Ohio. Ohi	8 4 8 8 8 8 4 4 1 mo. 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Dec. 14, 1799 July 4, 1826 July 4, 1826 July 4, 1826 July 4, 1826 July 4, 1831 Feb. 23, 1848 June 8, 1845 July 24, 1862 April 4, 1841 Jan. 18, 1862 June 15, 1849 July 9, 1850 Mch. 8, 1869 June 15, 1849 July 31, 1875 July 23, 1885 Jan. 17, 1893 Sept. 19, 1881 Nov. 18, 1886 June 24, 1908 Mch. 13, 1901 June 24, 1908 Mch. 13, 1901 June 24, 1908 Sept. 14, 1908	67 90 83 85 73 80 78 68 71 53 65 74 64 77 56 66 66 63 70 49 56 71 57 71 57 71 57 71 75 75 75 75 75 75 75 75 75 75 75 75 75
26 27 28	Theodore Roosevelt	Oct. 27, 1858 Sept. 15, 1857 Dec. 28, 1856	New York Ohio Virginia	42 51 56	New York Ohio New Jersey.	7 1/2	Living Living Living	_

VICE PRESIDENTS OF UNITED STATES

	Name.	Born.	Native State	State from which elected.	Years of service	Died.	Age at Death
1. 2. 3. 4	John Adams Thos. Jefferson Aaron Burr Geo. Clinton Elbridge Gerry Daniel D. Tompkins John C. Calhoun Martin Van Buren Richard M. Johnson John Tyler George M. Dallas Millard Fillmore William R. King John C. Breckenridge Hannibal Hamlin Andrew Johnson Schuyler Colfax Henry Wilson William A. Wheeler Chester A. Arthur Thos. A. Hendricks Levi P. Morton Adlai E. Stevenson Garret A. Hobart Theodore Roosevelt Chas. W. Fairbanks Jas. S. Bherman Thomas R. Marshall	April 13, 1743 Feb. 6, 1756 July 26, 1739 July 17, 1744 June 21, 1774 Mar. 18, 1782 Oct. 17, 1781 Mar. 29, 1790 July 10, 1792 Jan. 7, 1800 April 6, 1786 Jan. 21, 1821 June 30, 1819 Oct. 5, 1830 Sept. 7, 1819 May 16, 1824 Oct. 23, 1835 June 3, 1844 Oct. 27, 1858 May 11, 1858 May 11, 1858 May 11, 1858	Mass. Virginia New Jersey New York Mass. New York So. Carolina New York Kentucky Virginia Pennsylvania New York No. Carolina Kentucky Maine No. Carolina Kentucky Maine No. Carolina Kentucky Maine New York New Hamp. New York New Hamp. New York Vermont Ohio Vermont Kentucky New Jersey New Jersey New York Ohio New York Indiana	Mass. Virginia New York New York Mass. New York So. Carolina New York Kentucky Virginia Pennsylvania New York Alabama Kentucky Maine Tenn. Indiana Mass. New York Indiana	8 4 7 11/2 8 7 11/2 4 1 mo. 4 1 mo. 4 21/2 6 mos. 6 mos. 4 21/2 6 mos. 4 31/2	July 4, 1826 July 4, 1826 Sept. 14, 1836 April 20, 1812 Nov. 23, 1814 June 11, 1835 Mar. 31, 1850 July 24, 1862 Nov. 19, 1850 Jun. 18, 1862 Dec. 31, 1864 Mar 7, 1874 April 18, 1853 May 17, 1875 July 4, 1891 July 31, 1875 July 4, 1891 July 31, 1875 June 4, 1887 Nov. 12, 1875 June 4, 1887 Nov. 12, 1885 Living June 14, 191 Living Living Living Oct. 30, 1912 Living	90 83 80 73 70 51 68 79 70 72 72 74 67 54 81 66 63 66 66 67 78 55

Corporations in the United States earned \$3,304,000,000 above all expenses during the calendar year of 1912, exceeding all previous records, since the enactment of the corporation tax law, by \$400,000,000.

The increased prosperity of the corporations is expected to yield the Federal Government more than \$36,000,000, in-

VACANT PUBLIC LANDS IN THE UNITED STATES

Unoccupied public lands, subject to settlement and entry, are to be found in all the states west of the Mississippi River except Iowa and Texas. There is also considerable vacant public land in Michigan, Florida, Alabama and Mississippi. Persons who desire to make homestead entry should first decide where they wish to locate, then go or write to the local land office of the district in which the lands are situated and obtain from the records diagrams of vacant lands. Following is a list of the United States land offices:

MONTANA: Billings. Montgomery. Bozeman. Fairbanks. Glasgow. Great Falls. Juneau. Nome. Havre. Helena ARIZONA: Kalispell. Lewistown. Phoenix. ARKANSAS: Miles City. Camden. Harrison. Missoula. NEBRASKA: Alliance. Little Rock. CALIFORNIA: Eureka. Broken Bow. Independence. Los Angeles. North Platte. O'Neill. Valentine. Sacramento. San Francisco. Susanville. NEVADA: Visalia. Carson City. Colorado: 'Del Norte. Elko. NEW MEXICO: Denver. Clayton. Durango. Fort Sumner. Las Cruces. Glenwood Springs. Hugo, Roswell. Lamar Santa Fe. Leadville. Tucumcari. Montrose. NORTH DAKOTA: Pueblo. Bismarck. Sterling. Dickinson. FLORIDA: Minot. Williston. Gainesville. IDAHO: OKLAHOMA: Blackfoot. Guthrie. Boise. OREGON: Coeur d'Alene. Burns. Hailey. Lewiston. La Grande. Lakeview. Portland. Roseburg. KANSAS: Dodge City. Topeka. The Dalles Vale.
SOUTH DAKOTA
Bellefourche. Louisiana: Baton Rouge. MICHIGAN: Marquette. Gregory. MINNESOTA: Cass Lake. Crookston. Lemmon. Pierre. Rapid City. Timber Lake. UTAH: MISSISSIPPI: Jackson. Salt Lake City. MISSOURI: Vernal. Springfield.

Washington:
North Yakima.
Seattle.
Spokane.
Vancouver.
Walla Walla.
Waterville.
Wassu.
Wassu.

The register and receiver at any of these offices will advise the steps to take in making entry. Before entry a personal inspection of the lands should be made, to ascertain if they are suitable. Applicants should fully examine each legal subdivision for which they make application, as satisfactory information regarding the character and occupancy of public lands can be obtained in no other way. As each applicant must swear that he is well acquainted with the land described in his application, and as all entries are made subject to the rights of prior settlers, the necessity for this careful inspection is apparent. If the applicant is satisfied on the above points, entry can be made at the local land office in the manner prescribed by law, under the direction of the local land officers. The following table shows by states the lands unoccupied July 1st, 1916.

		Area in acres	
State	Surveyed	Unsurveyed	Total
Alabama	42,680		42,680
Arizona	6,566,288	17,030,931	23,597,219
Arkansas	402,219		402,219
California	15,777,934	4,248,065	20,025,999
Colorado		2,002,783	14,908,127
Florida	135,237		135,237
Idaho	8,831,490	6,679,071	15,510,561
Kansas			56,018
Louisiana	44,804		44,804
Michigan	90,540		90,540
Minnesota	798,804		798,804
Mississippi	30,374		30,374
Missouri			952
Montana		7,420,571	16,649,725
Nebraska		8,320	146,256
Nevada		24,845,759	55,375,077
New Mexico		7,900,991	26,338,379
North Dakota			381,199
Oklahoma			55,250
Oregon		1,395,461	15,337,809
South Dakota		53,781	2,382,588
Utah		18,532,978	
Washington		149,788	1,132,571
Wisconsin	5,872		5,872
Wyoming		1,960,752	
Grand total	162,716,338	92,229,251	254,945,589

The unappropriated lands in Alaska are not included herein. The total area of Alaska is 378,165,760 acres, of which about 15,500,000 acres are reserved. Approximately 740,000 acres have been surveyed under the rectangular system.

For detailed information regarding vacant public lands, and suggestions to persons desiring to make homestead entries, address The Department of the Interior, General Land Office, Washington, D. C. Maps showing the location of vacant public land subject to entry are not issued by the General Land Office. This information can be reliably obtained only from the records of the various district land offices.

MUDDIEST OF RIVERS

The Missouri is the muddiest river in the Mississippi Valley, says The Overland Guidebook of the United States Geological Survey. It carries more silt than any other large river in the United States, except possibly the Rio Grande and the Colorado. For every square mile of country drained it carries down stream 381 tons of dissolved and suspended matter each year. In other words, the river gathers annually from the country that it drains more than 123,000,000 tons of silt and soluble matter, some of which it distributes over the flood plains below to form productive agricultural lands but most of which finds its way at last to the Gulf of Mexico.

It is by means of data of this kind that geologists compute the rate at which the lands are being eroded away. It has been shown that the Missouri River is lowering the surface of the land drained by it at the rate of one foot in 6,036 years. The surface of the United States as a whole is now being worn down at the rate of one foot in 9,120 years. It has been estimated that if this erosive action of the streams of the United States could have been concentrated on the Isthmus of Panama it would have dug in seventy-three days the canal which has just been completed, after ten years' work, with the most powerful appliances yet devised by man.

NATIONAL IRRIGATION

By J. B. BEADLE, U. S. Reclamation Service

By J. B. BEADLE, U. S. Rectamation Service

The western half of the United States is for the most part acre-feet, or two thousand billion gallons of water. It has did in the sense that the rainfall is insufficient for crop production. The same area is largely public land, the property of the 20,000,000 yards in dams and forming conduits aggregating action. Hence the Nation has a direct as well as an indirect takeness in aiding irrigation and in 1902 Congress passed the miles of futures. Its canals placed end-on would circle the eclamation Act, providing for the construction of irrigation United States. Its structures of all kinds, large and small, reclamation projects directly by the Federal Government. dams, bridges, canal drops, checks, and the like total over the proceeds from the disposal of public lands were constituted 75,000 in number.

The Government projects now operated are listed in Table 2, which shows that the Reclamation Service delivered irrigation. arid in the sense that the rainfall is insufficient for crop producarid in the sense that the rainfall is insufficient for crop production. The same area is largely public land, the property of the Nation. Hence the Nation has a direct as well as an indirect interest in aiding irrigation and in 1902 Congress passed the Reclamation Act, providing for the construction of irrigation or reclamation projects directly by the Federal Government. The proceeds from the disposal of public lands were constituted a special reclamation fund and the Reclamation Service was formed in the Department of the Interior to carry on the work. Twenty-five projects have been adopted for development and most of these have been finished or reached a stage of completion where the larger features are built and water is delivered tion where the larger features are built and water is delivered to units of the project, leaving only the gradual extension of the distributary canals as settlement progresses.

RECLAMATION LAW

RECLAMATION LAW

The "organic act" governing the operations of the Reclamation Service became law in June, 1902, and is commonly called the Reclamation Act. This has been amended and supplemented from time to time, particularly by what is called the Reclamation Extension Act of August 13, 1914. In its broad features the existing law provides for the following:

1. A reclamation fund composed of the receipts from the disposal of public lands in the arid States under the provisions of the various land laws. The fund now approximates a hundred million dollars.

2. The construction of infraction systems to water and the construction of infraction control to the control to the construction of infraction control to the con

The construction of irrigation systems to water public

2. The construction of irrigation systems to water public and adjacent private lands.

3. Practically free entry to the public lands under the irrigation projects, limiting any one citizen to a farm of such size as is capable of supporting a family.

4. Subdivision of the private lands by sale in small tracts, limiting the area to which water will be furnished one individual to 160 acres.

5. Repayment in easy terms, extending over a long period.

5. Repayment in easy terms, extending over a long period, of the cost of building the works by the holders of the lands benefited, the money going back into the reclamation fund for use on other projects.

COMPLETED WORK

COMPLETED WORK

The Reclamation Service has completed 25 projects or units to the point where the systems are operated and water supplied the farmers for crop production. The works so far constructed make water available for 1,500,000 acres, and the projects under way when completed will provide for nearly as much more. As incidental to the construction of large irrigation works the Service has engaged in a wide variety of engineering effort, including the construction and operation of reservoirs, canal systems, roads, telephone systems, power plants, transmission lines and railroads. On one project Portland cement was manufactured and on several others the material known as "sand cement" has been produced and used to advantage.

The Service has added some notable structures to the engineering monuments of the country. It has built the highest dam in the world on the Boise River, Idaho, and the one storing the greatest quantity of irrigation water on the Rio Grande, New Mexico. Its reservoirs are capable of holding 6,500,000

which shows that the Reclamation Service delivered irrigation water to 850,000 acres during 1915, but that the systems were constructed well in advance of this, being capable of serving

nearly 1,500,000 acres.

CROPS

CROPS

As indicated in Table 2, the irrigated lands are already producing an annual crop worth approximately \$20,000,000, which should be steadily increased by more intensive farming as well, as by the development of additional land. The new lands brought into production do not reach their full yield the first year, including young orchards just coming into bearing, new alfalfa stands giving a single cutting of hay, and other fields giving partial yields while being better prepared for full production. In 1915 the farmers on the Government projects harvested irrigated crops from over 750,000 acres. The 60,000 acres listed as irrigated, but not cropped, represent mainly young fruit trees and newly seeded alfalfa.

Alfalfa dominates all crop statistics from the irrigated areas. It occupies nearly half the cropped acreage and yields over one-third the total crop value. Its many virtues readily explain this popularity. Once established, or a "stand" secured, it is a hardy plant and continues almost indefinitely to furnish good annual yields without reseeding. It gives several yields or cuttings each year. It is a legume-with the peculiar power of drawing from the atmosphere the nitrogen in which the soils of the arid region are often deficient and leaves behind more than it found of this most valuable of plant requirements. It is the deepest of subsoilers, penetrating with its many roots to a remarkable depth for the other essential elements of plant growth and improving the physical condition of the soil. It furnishes a hay of superior quality for conditioning and fattening stock, so effective in fact that its medicinal value is now being utilized for humans.

A wide variety of other crops are grown on the Government projects—hava, cereals, fruits, sugar beets, and cotton, as well

being utilized for humans.

A wide variety of other crops are grown on the Government projects—hays, cereals, fruits, sugar beets, and cotton, as well as garden products. Barley is the leading cereal, largely replacing corn in importance in comparison with middle western farming. A considerable area is devoted to grains little seen in the humid States and belonging to the sorghum-corn family, including Kafir corn and milo maize. Beet-sugar factories have been established on a number of the projects, contracting with the farmers for a profitable crop on a large acreage. Cotton has furnished an industry of importance on the southern projects.

projects.

Fruit growing is naturally slow to become general, owing to the capital required and postponement of returns; but the industry is making steady progress and has become of major importance on the projects peculiarly suited to it. The Sunny-

TABLE I. BRIEF SUMMARY OF CONSTRUCTION RESULTS (To June 30, 1916)

	Number or	MATERIALS HANDLED	Number or
Constructions	quantity	Excavation:	quantity
Dams.	100	EarthCubic yards	. 123,000,000
Canals Miles	10,410		. 8,300,000
Tennels "	26	Rock	7,300,000
			100 100 000
Irrigation and drain pipe	360		. 138,600,000
Flumes	100	Volume placed in dams:	
Caral lining (concrete)	200	Masonry "	2,070,000
Canal lining (concrete)	- 850	Earth "	. 9,680,000
Koads	80	Rockfill and crib "	
Kailroads	0.00	NOCKINI and cristiania	
Telephone lines	2,300	Total	21 350 000
Transmission lines	425	Cubic stands	1 200 000
Canal structures	72,000	RiprapCubic yards	400,000
Bridges	5.228	Paving	. 000,000
Culverts	6.370	ConcreteCubic yards	. 2,838,000
Buildings	1,000	CementBarrels	. 3,005,000

side Unit in Washington is the home of the famous Yakima working a reduction in the total amount eventually to be repaid Valley apples, and in 1914 produced over a million dollars by the irrigators for the construction and operation of the worth of fruit.

TABLE II Traigation and crop results on Government projects, 1915 1

Titigation a	ma crob res	mes on a	OACLHUICH	
Project	Irrigable	Trri-	Cropped	Value of crops Per
2 10,000		gated		acre
		acreage		Total 2 cropped
C. It Dimen				
Salt River				\$3,661,769\$21.31
Yuma		27,857		873,721 34.81
Orland	20,320	8,928	6,930	220,422 31.81
Grand Val-				
ley 4				
Uncompangre	•			
Valley	65,000	41,463	40,553	1,044,915 25.76
Boise	150,000	76,705		1,526,873 21.87
Minidoka	120,000	83,562		1,725,515 22.41
Huntley	30,813	18,203		535,363 29.41
Milk River .	22,200	4.192.		51,249 13.18
Sun River	16,326	4,261.		5 80,000 5 19.00
Lower Yel-	10,020	T,DUL.	2,220	- 00,000 15.00
	42 220	12.656	11,990	194,011 16.18
lowstone	42,329			
North Platte	129,714	70,007	68,130	1,263,617 18.55
Truckee-		40.000		
Carson	65,000	40,295		592,5236 15.39
Carlsbad	24,796	13,470		245,684 21.70
Hondo	3,330	1,294	1,287	17,778 13.81
Rio Grande:	45,000	33,876	32,246	1,103,389 34.22
Umatilla	17,000	5,306.	3,603	104,653 29.04
Klamath	38,000	27,254		377,488 13.85
Belle Fourche		44,067		462,050 10.72
Okanogan	10,099	7,800		254,425 52.60
Camaro Buss	==,0,,,,,,	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-,	

ag

1,472,772

82,757.. 66,607.. 54,919.. 2,750,326.. 50.08 34,000.. 22,000.. 18,100.. 668,650.. 37.00 42,816.. 25,753.. 24,833.. 410,031.. 16.51

1,330,222..814,906..757,613..18,164,452.. 24.00

856,778

¹ Data are for calendar year (irrigation season) except on Salt River project, Ariz., data are for corresponding "agricultural year," October, 1914, to September, 1915.

² Area Reclamation Service was prepared to supply water.

² Irrigated crops. Excludes small areas on few projects

Totals, reclamation projects

Yakima: Sunnyside

Unit Tieton Unit Shoshone . . . Totals

cropped by dry farming.

Operation begun in 1916.

Estimated. Crop reports covering 164 irrigated farms with 6,665 acres cropped, of which 2,422 acres were not irrigated.

Total crop value for 6,665 acres \$115,129, or \$17.29 per acre.

\$ \$22.60, excluding native pasture and other fields not in full production.

SALT RIVER PROJECT, ARIZONA

In Arizona the flow of Salt River has been utilized to irrigate nearly 200,000 acres of fertile land surrounding the State capital. Storage is provided about 80 miles above Phœnix by the famous Roosevelt Dam, a rubble masonry arch in the river canyon 280 feet in maximum height and 1,125 feet along the crest. This gives a reservoir capacity of 1,360,000 acre-feet, or over 400,000,000,000 gallons.

From Roosevelt the stored water is passed 60 miles down the river, where the diversion dam turns it into canal systems north and south of the stream. Over 800 miles of main canals and laterals have been excavated to distribute the water to the farmers. The opportunities for hydro-electric development created by the construction of the irrigation works have been created by the construction of the irrigation works-have been utilized by building power plants at the base of Roosevelt Dam and at several points in the canal system where necessary drops afford good heads. Transmission lines have been built, delivering power to the several towns on the project, including the city of Phenix, where it is used for lighting and manufacturing, and to near by mining industries, to which the surplus is sold. The receipts from power sales are credited to the project,

Except for a few minor details the project is regarded as complete, and in 1915 about 190,000 acres were actually irrigated. Crops worth from four to five million dollars are annually harvested from the irrigated lands, the cultivation of which is practically continuous, permitting the sowing and harvesting of two different crops in the same field within the harvesting of two different crops in the same field within the year. A wide variety of products are grown. Alfalfa occupies about one-half the producing acreage, yielding as many as five or six cuttings annually. In 1914 cotton growing had reached extensive proportions on the project, the crop from 11,500 acres bringing a return of \$715,000, but the drop in price attributed to the European war led to the temporary substitution of other crops. Of the grains, barley, wheat, and the sorghum coms are the largest producers. The warm climate lends itself to the growth of citrus as well as deciduous fruits and producing trees have been established on a considerable acreage, which is expected to increase materially in future years with a gradual development toward intensive agriculture.

YUMA PROJECT, ARIZONA AND CALIFORNIA

Above Yuma, Arizona, has been constructed the Laguna Dam, a low overflow structure of the Indian weir type, 4,780 feet between abutments and 260 feet up and down stream, with a maximum height of 40 feet. This turns the water into canals on both sides of the river for irrigation in Arizona and California. The canal system is now competent to water 70,000 acres. This will be extended to cover about 90,000 acres, and an additional 40,000 acres on the Yuma Mesa may be reached by pumping

by pumping.

About 30,000 acres have been irrigated and the annual cropyield is approaching a million dollars. As at Salt River alfalfa is the principal crop and a large acreage is here permitted to ripen for seed, which in 1915 brought the farmers \$250,000 from 6,500 acres. Cotton has also proven very profitable on this project and with the aid of the Department of Agriculture varieties particularly suited to the locality have been imported or evolved. Other profitable crops include the cereals, sorghum corns, cane, vegetables, and truck. Fruit, especially of the citrus varieties, will undoubtedly increase in importance with development of the project, particularly on the mesa lands yet to be reached by the canal system.

ORLAND PROJECT, CALIFORNIA

Near Orland, California, has been completed a relatively small project, or what may be regarded as a separate unit of a large Sacramento Valley project. The East Park Dam on Little Stony Creek forms a reservoir storing the water of that stream and of Stony Creek, the latter brought to the reservoir through a feed canal. By means of two diversion dams near Orland the water is taken out of the stream channel into canal vectors, surprising an area of 20 000 access favored by coresponding

Oriant the water is taken out of the stream channel into canal systems supplying an area of 20,000 acres favored by exceptional soil, location, transportation facilities, and climate.

In 1915, nearly 9,000 acres were watered, producing crops worth \$220,000. High priced products are grown on this project, including almonds, olives, oranges, grapes, and other citrus and deciduous fruits, nuts, and garden truck, as well as

hay and forage crops.

GRAND VALLEY PROJECT, COLORADO

GRAND VALLEY PROJECT, COLORADO

For this project a diversion dam has been built in Grand
River about 8 miles northeast of Palisade. From this point
the main canal follows what is locally known as the "high line,"
and piercing several hills by tunnels, proceeds in a general
westerly direction, passing north of Grand Junction, and supplying about 43,000 acres of land above the older private canals
of the valley. An additional 10,000 acres may be watered by
pumping with power developed at drops in the canal. The land
is particularly suitable for fruit growing and capable of producing crops of high value. Irrigation began on this project
in 1916. in 1916

UNCOMPAHGRE VALLEY PROJECT, COLORADO

Here the Reclamation Service has built the Gunnison Tunnel to bring water from the Gunnison River to the valley of the to oring water from the Gunnson River to the valley of the Uncompaning to supplement the meager flow of the latter stream. A number of canal systems heading in the Uncompaning distribute the water to about 140,000 acres. Irrigation has been practiced here for many years and the principal private canals have been purchased or absorbed in the Government system to permit change or enlargement in a comprehensive distribution of the control o hensive development of the possibilities for irrigation in the

valley. Work is in progress on the canal system and this now reaches 65,000 acres, of which 40,000 are being irrigated. The crop production has steadily grown, exceeding a million dollars in value in 1915. Deciduous fruits are successful on the irrigated lands and good yields are obtained from alfalfa, potatoes, and Vandalia, with supplemental storage in a reservoir fed by

BOISE PROJECT, IDAHO

One of the largest projects nearly completed is the Boise in Idaho. This is about equal in area to the Salt River and involves the storage and diversion of the waters of Boise River. The reservoir is formed by the Arrowrock Dam, the highest in the world.

About 12 miles below Arrowrock and 8 miles above Boise is the diversion dam of the project, turning the water into the canal system, which comprises 1,000 miles of canal and 12,000

structures.

Nearly 100,000 acres are now in crops and the annual production already exceeds a million dollars. Alfalfa, clover, cereals, and potatoes are the leading products.

MINIDOKA PROJECT, IDAHO

MINIDOKA PROJECT, IDAHO

In Snake River Valley a project has been built, involving storage in Jackson Lake, Wyoming and a distribution system near Minidoka, Idaho. The Minidoka Dam diverts water to north and south side canals and furnishes a head of 46 feet, which is used to drive a 7,000-kilowatt power plant erected at the dam. The power is utilized to lift irrigation water to additional land not accessible by gravity flow and the excess energy is sold for the benefit of the project.

The power is produced at very low cost making it possible to sell the surplus energy for varied and novel uses, such as operating washing machines, flat-irons, and other utensils of the small home. Considerable is used for heating. One of the project towns has erected a school-house that is pointed out a building without a chimney or a gas pipe, electricity being used for heating, lighting, and operating all the devices necessary in a modern high school that includes physical and chemical laboratories.

The Minidoka Project is practically complete as now planned, and it is possible to water 120,000 acres, of which 85,000 are under irrigation, including 40,000 acres supplied by pumping. Forage crops, grain, potatoes, and sugar beets are the principal products.

HUNTLEY PROJECT, MONTANA

HUNTLEY PROJECT, MONTANA

This is one of the few projects that requires no storage works, being located on the Yellowstone River at a point where the natural run-off from a large drainage area provides a sufficient water supply. The main canal and lateral system now cover 30,000 acres, which may be increased by small extensions.

The project is one of the most successful in operation and about 20,000 acres are now in crop, yielding products averaging in value about \$30 per acre. Sugar beets have become the most important crop. A company has erected and operates a beetsugar factory, contracting with the farmers for a certain acreage to be planted with seed supplied by the company, which pays for the beets according to the sugar content. Over 5,000 acres are now utilized in this way, returning to the farmer about \$60 per acre. Alfalfa, grain, and garden truck are the other important products. portant products.

milk river project, Montana

Ever since the passage of the Reclamation Act the effort has been made to develop along broad lines the irrigation possibilities of the Milk River drainage. The situation is much complicated and delays have been caused by the fact that the river is an international stream, rising in the United States, entering Canada, and returning to this country. Thus between the storage sites and irrigable lands in the United States the river passes through lands that may be watered in Canada, leading to conflicting interests in the limited water supply. After years of negotiation a treaty with Great Britain was finally proclaimed in 1910 for the distribution of the water, but its interpretation in detail is still subject to adjustment, which is now in the hands of a joint commission representing the two Governments. the two Governments.

Meanwhile the Reclamation Service has built certain features Meanwhile the Reciamation Service has built certain features of the American project, permitting irrigation of a portion of the lands. A canal 25 miles in length has been excavated to supplement the flow of Milk River from that of St. Mary River, thus diverting water through the divide separating the Hudson Bay drainage from that of the Mississippi and Gull of Mexico. Work is now under way on a storage dam at Sherburne Lakes

at three diversion dams near the towns of Chinook, Dodson, and Vandalia, with supplemental storage in a reservoir fed by one of the main canais. The Dodson and Vandalia dams have been built and distributaries for 40,000 acres. Grain and hay are the staple crops. The rainfall is sufficient to permit dry farming, but the yield is doubled or trebled with irrigation. Ultimately 200,000 acres or more may be watered.

SUN RIVER PROJECT, MONTANA

Near Fort Shaw the Reclamation Service has built and Near Fort Shaw the Reclamation Service has built and operated for several years a unit covering 16,000 acres, and work is now under way on larger features of a project that may eventually comprise 175,000 acres. A diversion dam has been built in the Sun River near Elizabeth and a distribution system for lands north of the river is under construction. A storage reservoir will be built on the north fork of the Sun.

The irrigable lands are within 50 miles of Great Falls, which supplies a market for the farm products. Crain her weeker the sun products.

supplies a market for the farm products. Grain, hay, and

vegetables are the principal crops.

LOWER YELLOWSTONE PROJECT, MONTANA AND NORTH DAKOTA

About 18 miles below Glendive, Montana, the Yellowstone About 16 miles below Glendive, Montana, the Yellowstone Dam diverts water into a canal that covers a strip of land west of the river in Montana and North Dakota. About 35,000 acres can now be supplied. The cold climate and short growing season limit the crops mainly to hay and grain, which give enhanced yields under irrigation, but the rainfall is sufficient to encourage dry farming and limits the practice of irrigation by the settlers.

NORTH PLATTE PROJECT, NEBRASKA AND WYOMING

This is another interstate project, utilizing the flow of the North Platte River to irrigate lands in Wyoming and Nebraska. Storage is provided near the headwaters by the Pathfinder Dam, a masoury arch 218 feet high and 432 feet along the crest. Near Whalen, Wyo., a diversion dam supplies the Interstate Canal, a notable irrigation conduit with a capacity of 1,400 cubic feet per second at its head. The canal is over 100 miles long and serves 130,000 acres in the two States. It takes several days for water entering the headgates to reach the end of the days for water entering the headgates to reach the end of the ditch, and several small reservoirs have been constructed along the canal to provide temporary storage and better regulation of the flow. Work is now underway on a large unit on the opposite side of the river. Here the Fort Laramie Canal will take out from the river at the Whalen Dam. It will exceed the Interstate Canal in length and furnish water to an area

of 100,000 acres.

The area actually irrigated by the North Platte project is now increasing about 5,000 acres each year, and the annual crop value reached \$1,250,000 in 1915, when 70,000 acres were trop value reached \$1,250,000 in 1915, which 10,000 acres were harvested. Alfalfa and grain are extensively grown and used to fatten stock for market. Hog raising has become an important and profitable industry; during the last six months of 1914, shipments to market averaged over 20 carloads, representing monthly receipts of \$30,000 from this industry alone.

TRUCKEE-CARSON PROJECT. NEVADA

On this project the Lahontan Dam has been recently built, being completed in 1915. The structure is a large earth embankment, with rock and gravel paving, 124 feet in maximum height and 1,400 feet long. The most interesting feature of the structure is the provision for passing excess flood water without injury to the dam directly or by erosion of the relatively soft material composing the river channel and canyon walls. For this purpose concrete spillway channels leading from each end of the dam are built in steps, dropping the water to a concreted stilling pool below the structure. The reservoir impounds the flow of Carson River and also receives the water brought from the Truckee through the Truckee Canal, built some years before. Prior to building the reservoir a hydroelectric plant was erected to utilize the drop from Truckee Canal to Carson River and the power thus developed was used in the construction of the dam. About 65,000 acres are now under ditch on this project. With additional storage and canal systems 200,000 acres may ultimately be reclaimed. The locality is extremely arid, with an annual rainfall of about 4 inches, insufficient for any crop growth. Under irrigation the soil gives good yields of alfalfa, grain, and vegetables.

CARLSBAD PROJECT, NEW MEXICO
Near Carlsbad, New Mexico, two dams have been built
across the Pecos River, forming storage basins, and from the lower one of these a canal system has been excavated to supply 25,000 acres of land surrounding Carlsbad. About 14,000 acres are now irrigated, producing good yields of alfalfa, cotton, grain, truck, and fruit.

RIO GRANDE PROJECT, NEW MEXICO AND TEXAS

This is an interstate and international project, using the
waters of the Rio Grande to irrigate land in New Mexico and
Texas and supplying Mexico at the international boundary
a quantity of water fixed by treaty.

The largest irrigation reservoir in the world is formed by the
recently completed Elephant Butte Dam, spanning the river
canyon near Engle, N. Mex. This structure is of rubble concrete, 300 feet from the bottom of the foundation to the crest,
which extends 1 250 feet between abutments. This crives a crete, 300 feet from the bottom of the foundation to the crest, which extends 1,250 feet between abutments. This gives a reservoir capacity exceeding 2,500,000 acre-feet, or 800,000,000,-000 gallons. One of the problems connected with storage on the Rio Grande is due to the great amount of silt carried by the stream, and this large reservoir capacity is expected to care for years of silt accumulations, which are further provided for by numerous openings through the dam for sluicing.

From the reservoir the water passes down the river channel to the irrigable lands, which are located in a series of narrow valleys along the stream in New Mexico and Texas. The development of each valley involves a diversion dam, main canals on either side of the river, and the necessary distributaries and structures. A number of private carely distributations.

canals on either side of the river, and the necessary distributaries and structures. A number of private canals watering small areas will be embraced in the general development. In the Mesilla Valley the Leasburg Dam and main canal have thus been built to connect with several community canals covering about 35,000 acres. An additional diversion is now under construction in this valley controlling 60,000 acres. In El Paso Valley the Old Franklin Canal has been purchased and enlarged. This passes through the city of El Paso, where it has been concrete lined to give increased capacity. About 29,000 acres will eventually be watered.

Other tracts to be reached lie in Rincon and Palomas Valleys. In all, the project contemplates the irrigation of about 155,000 acres in the United States. The soils are very fertile and the market facilities unusually good. Alfalfa yields 3 to 6 tons per acre and the price averages above \$10 per ton, reaching at times as high as \$15 or \$2.0. Vegetables, truck, and fruit are very successful, and the 32,000 acres harvested in 1915 under the Government works yielded crops worth well over a million dollars.

UMATILLA PROJECT, OREGON

This project will supply 25,000 acres lying east of the Umatilla River by means of a canal system heading in Cold Springs Reservoir, which is filled by a feed canal from the Umatilla. Recently an extension to the project has been under construction west of the river, adding about 11,000 acres to the irrigable

On the older part of the project about 5,000 acres are now in crop. The conditions are favorable for the growth of fruit, which is gradually becoming the principal product. Good yields are also obtained from alfalfa, grain, vegetables, and truck crops.

KLAMATH PROJECT, OREGON AND CALIFORNIA

In the Klamath country of southern Oregon and northern California a plan has been partially carried out for utilizing the run-off of Klamath Lakes and Lost River to water areas that may eventually total 200,000 acres. Certain units of the project have been constructed, making water now available for 50,000 acres, of which 30,000 are being irrigated. In its entirety the project is an intricate one, involving a number of unusual features, of which perhaps the most novel is the dewatering and subsequent canalization of the Tule Lake bed. For this nurses its supply from Lost River is exit off by a dam watering and subsequent canalization of the Tule Lake bed. For this purpose its supply from Lost River is cut off by a dam at Clear Lake, the head of Lost River, forming a large shallow basin in which evaporation practically equals the inflow, and largely diverting into Klamath River the run-off that reaches Lost River below Clear Lake. By evaporation the bed of Tule Lake is gradually uncovering and irrigation of the exposed land has begun along the edge of the lake.

The Klamath area receives an average annual rainfall of 14 inches, permitting some crop production by dry farming, but the yields are doubled with irrigation. Forage crops predominate, but potatoes are successfully grown and small areas of fruit trees have yielded well.

BELLE FOURCHE PROJECT, SOUTH DAKOTA
Near the town of Belle Fourche, S. Dakota, the river of the
same name has been utilized to irrigate lands east of the town.
A diversion dam in the river turns the flow into a feed canal
supplying a reservoir on Owl Creek, formed by a large earth
dam from which canal systems distribute the water to the irrigable lands. The distributaries can now serve an area of 80,000
acres, about half of which is producing crops. Cereals predominate, including wheat, oats, corn, rye, and barley. Alfalia
is generally grown, and potatoes and garden truck occupy
small tracts. small tracts.

STRAWBERRY VALLEY PROJECT, UTAH

This contemplates the irrigation of 50,000 acres east of Utah Lake. Storage is provided by a dam on Strawberry River. By means of a tunnel nearly 4 miles long the water is carried through the rim of the Great Basin and delivered to Spanish Fork River. Here it is turned into the canal system by means of a diversion Here it is turned into the canal system by means of a diversion dam. The main canal serves also as a power conduit, supplying a hydro-electric plant, built early in the construction work, to furnish power for driving Strawberry tunnel. A permanent use of the power is planned for pumping water to tracts inaccessible by gravity flow and for drainage. Surplus power is sold to nearby towns. A number of old canals in the valley are supplied from the Government works. The principal products are alfalfe and other have cereals surgar beets and weretables. are alfalfa and other hays, cereals, sugar beets, and vegetables.

OKANOGAN PROJECT, WASHINGTON

In Okanogan County, Washington, the Reclamation Service has built works to serve 10,000 acres of land along Okanogan River within 50 miles of the Canadian border. Storage is pro-River within 50 miles of the Canadian border. Storage is provided in Salmon Lake and by an earthen dam on Salmon River near the town of Conconully. The water is turned into a canal system about 12 miles below the Conconully Dam by means of a weir across Salmon River. The gravity system was completed in 1910 and the water has been used by the farmers each year on an increased acreage. The area irrigated has now reached about 8,000 acres. Small hydro-electric plants have been erected at drops formerly provided in the project canals and the power thus developed is used to operate a pumping plant near Omak. This lifts water from the Okanogan River to supplement the supply from the Salmon. It is not necessary to run the pumps every year, but they provide capacity to water about 1,000 acres during seasons of lean run-off in Salmon River.

The project lands are excellently suited to the production of fruit, particularly apples. Peaches, apricots, pears, prunes, and various small fruits are also grown. Hay, forage, and vegetables are produced on smaller areas.

YAKIMA PROJECT, WASHINGTON

Considerable work has been completed toward the execution of a comprehensive development of the Yakima Valley, including storage reservoirs at the headwaters of the Yakima River and its tributaries, and distributing systems at various points lower down in the valley.

The principal distribution systems are the Sunnyside and Tieton units. Nearly 100,000 acres are now under irrigation on these two units growing crops each year worth three to

Tieton units. Nearly 100,000 acres are now under irrigation on these two units, growing crops each year worth three to three and a half million dollars. The section has become a well-known apple producer and through cooperative organizations has made great progress in developing a uniform product and in advertising and marketing it. In addition to apples and other fruits excellent yields are obtained from alfalfa, cereals, and vegetables. Indian corn is successful here; in 1914, 7,500 acres of this crop yielded an average of about 50 bushels per acre.

SHOSHONE PROJECT, WYOMING

In Wyoming the Shoshone River is being utilized to develop a project of 150,000 acres. In the canyon above Cody has been built the Shoshone Dam, a rubble concrete arch 328 feet high and 200 feet along the crest. This was the highest dam in the world when constructed, but has since been exceeded by the Arrowrock Dam, also built by the Reclamation Service. Eight miles below Cody a diversion dam turns the stored water into Corbett Tunnel, which delivers to the main canal. The distribution system now reaches 41,000 acres and about 30,000 acres are now being irrigated. Agriculturally the project is essentially a hay and grain producer, with small tracts devoted to vegetables and garden truck. Alfalfa is the principal crop, exceeding all others together in planted area and value of product. of product.

SPORTING RECORDS

AVIATION

Less than a decade ago flying in a heavier than air machine was only a dream. The war has now proved its practicability. It was on December 17, 1903, that Orville Wright made the first flight, going 852 feet and staying in the air 59 seconds.

Another step forward was made in 1905 when a way was discovered by which the machine could turn corners by means of warping planes. People began to look at the Wright brothers in a different light then.

In the fall of that same year France, which has always been In the fall of that same year France, which has always been close to the lead in aviation, sent a representative to this country to negotiate with the Wrights. They were willing to dicker, but not willing to give any demonstrations. Although hundreds of thousands of dollars were involved, the best the agent could get for an option was a photograph which showed little
or nothing. The Wrights were firm: money first and then flights have become more popular. They give a better test of
demonstration. The transactions fell through and the brothers the practicability of a machine. demonstration. The transactions fell through and the prothers continued their work alone. Charles R. Flint of New York then stepped forward. He was a promoter and he talked business. The Wrights had theretofore rather tried to keep their machine as a military asset. Mr. Flint proposed commerce. He induced the brothers to patent their inventions, and in 1908 the world hearn to have searching about it all. A new flier was sent the brothers to patent their inventions, and in 1908 the world began to know something about it all. A new flier was sent down to Manteo, N. C., in the summer of that year and the press took pictures. A propeller, the vertical planes, the steering rudder, came out on the negatives. That same year flights around Dayton were seen by outsiders, and then came the Government tests in this country by Orville, while Wilbur went abroad to convince France. Wilbur electrified the world at Le Mans, France, in August, and in September Orville began the flights at Fort Myer, which ended with the death of Lieut. Selfridge and his own serious injury.

Every month since then has seen progress and certainty. A man can travel as fast in an aeroplane now as he can by any other means of mechanical propulsion. Continents have been crossed and great heights have been reached. Nothing emphasizes the practicability of the aeroplane more than the use to which they are being put to in the European War. Every important country has its aviation department. The hydroplane, which is now receiving a great deal of attention by the experts, is a form of aeroplane equipped so that it may alight on water. The progress of aviation is seen in the following records: following records:

Distance and Duration Records

Date	Aviator	Place	Time	Distance
	-		H. M. S.	
1903, Dec. 17. 1904, Dec. 17.	O. Wright. O. Wright.	Kitty Hawk Kitty Hawk	0:00:59	852 ft. 2.79 mi.
1905, Oct. 5. 1906, Nov. 13.	O. Wright.	Dayton	0:38:03	24.01 mi. 721.6 ft.
1907, Oct. 26. 1908, Dec. 31.	H. Farman	Issy ·	0:00:25	2,528.8 ft. 77.31 mi.
1909, Nov. 3.	Farman	Mourmelon	4:06:25	143.84 mi. 362.66 mi.
1910, Dec. 30. 1911, Dec. 24.	A. Gobe	Pau		461.02 mi.
1912, Sept. 11. 1913, June 17.	M. Prevost	France	13:01:12 0:33:30 ² / ₅	
1914, June 28 1914, July 11.	Landmann R. Boehm	Germany Johannisthal	21:49 24:12:00	1,000 mi.

Altitude Records

Date	Aviator	Place	Machine	Height ft.
1908, Dec. 18	W. Wright	Anvers	Wright	350
1909. Dec. 1	Latham	Mourmelon	Antoinette	1,700
1910, Dec. 26		Los Angeles Parame	Wright Bleriot	11,472 12,828
1911, Sept. 4 1912, Sept. 17				17.878
1913. Dec. 27	Legagneux	France		20,295
1914. July 14	H. Oelerich	Leipsic		24,606 24,408
1016 April 26	Hawker	England		44,400

The greatest aeropiane feat in this country during 1915 was probably the flying upside down of Chas. Niles of Rochester with a 180 pound passenger. This was accomplished on June 16th, 1915, with a specially constructed Bleriot monoplane. On Sept. 29, 1913, Maurice Prévost won for France the International Aeroplane Cup, open to all nations, but with only France and Belgium competing, by flying the 124.28 miles (200 kilometers) in the record time of 59 minutes 43½ seconds, or over two miles a minute. The meet was held at Rheims. Prévost vanquished his two formidable French opponents, Emile Vedrines, and Eugene Gilbert, who took 60 minutes 51½ seconds and 62 minutes 55½, seconds, respectively, and easily outflew the single Belgian, Albeat Crombez, whose record time was 69 minutes 52 seconds.

was 69 minutes 52 seconds.

Cross-Country Flights

the practicability of a machine.

The greatest flight was that of Garros across the Mediterranean, from Saint Raphael, France, to Tunis, Africa—a distance of 558 miles in 7 hours and 53 minutes at the rate of 70 miles an hour.

A new cross-country record was established, when on April 1, 1916, carrying passengers, Stephen McGordon flew from Newport News to Washington and return, about 300 miles in 4½ hours, averaging 66 å miles an hour.

This beats all world's records, for an aeroplane carrying six

The aeroplane, self-balancing and of the biplane type, has reached 5,000 feet altitude with nine passengers; the weight carried was just under one ton.

WORLD'S BEST SPEED RECORDS BASED ON MILES PER HOUR (M.P.H.)

BASED ON MILES PER HOUR (M.P.H.)

Motor Car.—140.29 m.p.h. Mile in 25.40 by Burman, at Daytona, Fla., 1911.

Electric Trolley.—128.55 m.p.h. Average speed made by electric trolley in German Government test, 1902.

Steam Locomotive.—139.35 m.p.h. New York Central 7.29 miles at rate of 139.35 miles per hour, 1903.

Pigeon.—85.6 m.p.h. Average speed. Bird owned by W. J. Lautz, Buffalo. In 100-mile flight, 1900.

Motor Cycle.—91.8 m.p.h. Two miles by Arthur Chapple, New York July 27, 1912, 1:18 2-5.

Bicycle.—63 m.p.h. Paul Guignard, behind motor pace. Munich, Germany, 63 miles 189.8 yards per hour. 1909.

Aeroplane.—126.6 m.p.h. M. Prévost, in France, Sept. 29, 1913.

Motor Boat.—55 m.p.h. Made by Crusader III over measured mile course at Ventnor Yacht Club, Atlantic City, May 10, 1912.

Running Horse.—37.6 m.p.h. Straightaway mile in 1:35½ by Salvator, at Monmouth Park, N. Y., 1890.

Pacing Horse.—32.43 m.p.h. Mile time trial with wind shield, in 1:55. Dan Patch, St. Paul, 1906.

Trotting Horse.—30.37 m.p.h. Mile time trial in 1:58½. Lou Dillon, Memphis, Tenn., 1905.

Steamship.—30.53 m.p.h. Average made in fastest day's run. Mauretania, covering 673 knots. 1909.

Ice Skater.—28.12 m.p.h. Mile in 2:8. Flying start. Norval Baptie, Minneapolis, 1903.

Roller Skater.—24.42 m.p.h. Mile in 2:32. Clarence Hamilton, Chicago, 1909.

Running Man.—14.24 m.p.h. Mile in 4:12 3-5 Norman S. Tabor, 1915.

Tabor, 1915.
Rowing Man.—12.77 m.p.h. Mile in 4:12 3-5 Norman S. Rowing Man.—12.77 m.p.h. Average made by Cambridge crew, 1900. 4 mile race. 18:47.
Swimmer.—2 65 m p.h. Mile in 23:16 4-5. B. Kiernan, Australia, 1905.

NATIONAL LEIVE	TO.	CHIMITI TOMO	Dince 1700
1900-M. D. Whitman.		1909-W. A.	Larned.
1901-W. A. Larned.		1910-W. A.	
1902-W. A. Larned.		1911—W. <u>A</u> .	
1903—H. L. Doherty.			McLoughlin.
1904-H. Ward.			McLoughlin.
			Williams, 2d
1906-W. J. Clothier.			. Johnston.
1007W A Larned		1916R. N.	Williams, 2d.

1908-W. A. Larned.

1:563

HORSE RACING RECORDS	
Trotting 1 Mile	Records
Fastest trotter, any age or sex-Uhlan, bl. g. (9) ('12)	- 1:58
Yearling colt—Airdale ('13)	2:153/4
Yearling filly—Miss Stokes ('09)	2:191/4
Two-year-old colt-Peter Volo ('13)	2:041/2
Two-year-old filly—Real Lady ('16)	2:07 1/2
Two-year-old gelding—Henry Todd ('14)	2:1134
Three-year-old colt—Peter Volo ('14)	2:031/2
Three-year-old hillyVolga ('16)	2:051/2
Three-year-old gelding—Peter Thompson ('11)	2:071/2
Four-year-old colt—Peter Volo ('15)	2:02
Four-year-old mare—Joan ('10)	2:0434
Four-year-old gelding—Uhlan ('08)	2:073/4
Five-year-old stallion—Lee Axworthy ('16)	2:00
Five-year-old mare—Lou Dillon ('03)	1:581/2
Five-year-old gelding-Uhlan ('09)	2:021/4
Fastest first heat—Hamburg Belle ('09)	2:011/4
Fastest second heat—Hamburg Belle ('09)	2:013/4
Fastest third heat—The Harvester ('10)	2:02
Fastest fourth heat—Soprano ('11)	2:051/4
70.1.4	
Pacing Pacing	4.5537

Stallion—Dan Patch ('03)	
	13/4
Gelding—Frank Bogash Jr. ('14)	
Mare—Dariel ('03) 2:00	1/4
Yearling colt—Frank Perry ('11) 2:15	;
Yearling filly—Rose Magee ('14) 2:19	1/2
Yearling gelding—Rollo ('91) 2:28	31/4
Two-year-old colt—Directly ('94) 2:07	8/4
Two-year-old filly-Fleeta Dillon ('09) 2:08	33/4
Three-year-old colt—William ('13)	,
Three-year-old filly—Anna Bradford ('14)	3/4
Three-year-old gelding—Hemet ('12)	31/4
Four-year-old colt—William ('14))
Four-year-old mare—Miss Harris M. ('15) 2:0:	1/4
Four-year-old gelding—R. H. Brett ('14) 2:03	31/2
Five-year-old stallion—Braden Direct ('13) 2:0	13/3
Five-year-old mare—Leata J. ('13) 2:0.	3
Five-year-old gelding—Coney ('00)	23/4
Fastest first heat—Minor Heir ('10)	9
Fastest second heat—Directum I. ('14) 1:5	3
Fastest third heat—Directum I. ('14) 2:0	0
Fastest fourth heat—Evelyn W. ('11): Directum I. ('13) 2:02	3/4

Fastest pacing race record—Directum I., ch. h. ('15)___ Stallion—Dan Patch ('03)

24 Hour Track Automobile Races Lozier . Patschke & Mulford . 1,196 miles . Brighton Beach . 1909 Stearns . Poole & Patschke . . 1,253 " . Brighton Beach . 1910 Fiat . . . Verbeck & Hirsh . . . 1,491 " . Los Angeles 1911

AUTOMOBILE SPEED RECORDS

NOTOMOBILE GILLED REGGRES				
Miles	Year	Time	Driver	Car
1 2 5 10 12 15 20 50 100	1911 1911 1906 1909 1913 1906 1911 1911	25.40 51.28 2.34.00 5:14.40 9:20.80 10:00.00 13:11.92 35:52.31 56:37.65	Burman Burman Hemery Bru.e-Brown Disbrow Lancia Burman Burman Aitken	Blitzen Benz Blitzen Benz Darracq Benz Simplex Zip Fiat Buick Bug Buick Bug Peugeot
150 100 250 300 350	1911 1911 1916 1911 1915	1:55:18.00 2:34:12.00 2:23:04.00 3:53:33.50 3:24:42.00	Disbrow Disbrow Aitken Disbrow Anderson	Special Special Peugeot Special Stutz

All speedway records were broken on October 1st, 1916, when Jack Aitken won the Astor Cup Race at the New Sheepshead Bay 2 mile course. It was a 250 mile race, the winner making the average time of 104.8 miles an hour.

BOXING CHAMPIONS

Class	Weight (lbs.)	Name	Year
Heavyweight	over 158	Jess Willard	1915
Middleweight	158	No legitimate cla	aimant
Welterweight	145	Jack Britton*	1916
Lightweight	133	Freddie Welsh	1914
Featherweight	122	John Kilbane	1914
Bantamweight	116	John Ertlet	- 1914

*Claims title by winning elimination contest. †Claims title, being fouled by Champion Kid Williams on Sept. 10, 1915.

THE OLYMPIC GAMES

The Olympic games have been held every four years since they were revived in Athens in 1896. The fifth Olympiad was held in Stockholm during the summer of 1912, the United States winning another glorious victory. The American athletes won 16 firsts, 12 seconds and 13 thirds, a total of 85 points. Finland second with 29 points, Sweden third, 27 points and England fourth, 15 points. Our men behind the gun, rife and revolver also led the world and our cyclists and swimmers scored heavily.

The next Olympiad scheduled to be held in Berlin in 1916

was not held on account of the present European War.

Record of Last Three Olympiads

	Accord of	Dage Illico Otherpuse	
Track Events		London. 1908 M. S.	
200 metres	M. SA. Hahn, U. S	R. E. Walker, S. A :10 4-5 R. Kerr, Canada :22 3-5	Ralph Craig, U. S :10 4-5 Ralph Craig, U. S :21 7-10
800 metres	H. Hillman, U. S :49 1-5 J. Lightbody, U. S 1:56 J. Lightbody, U. S 4:05 2-5	W. Halswell, U. K :50 M. Sheppard, U. S 1:52 4-5 M. Sheppard, U. S 4:03 2-5	C. Ř. Reidpath, U. S :48 1-5 J. E. Meredith, U. S 1:51 9-10 A. N. S. Jackson, Eng. 3:56 4-5
\$ 000 matree		E. Voigt, U. K. (5 mi.) .25:11 1-5	H. Kolehmainen, Fin. 14:36 3-5 G. Goulding, Can46:28 2-5 H. Kolehmainen, Fin. 31:20
110 metre high hurdle 400 metre high hurdle	F. Schule, U. S :16 H. Hillman, U. S :53	F. Smithson, U. S	F. W. Kelly, U. S :15 1-10
Marathon Race Field Events	T. J. Hicks, U. S 3:28:53 Ft. Ins. R. C. Ewry, U. S 11 4 7-8	J. Hayes, U. S 2:55:18 2-5 Ft. Ins.	K. K. McArthur, So.A.2:36:00 Ft. Ins.
Standing high jump	R. C. Ewry, U. S 4 11	R. C. Ewry, U. S 10 11 1-4 R. C. Ewry, U. S 5 2	Tsiclitiras, Greece 11 7-10 Platt Adams, U. S 5 4
Running broad jump Running high jump Hop-step-jump	M. Prinstein, U. S24 1 S. S. Jones, U. S 5 11	F. C. Irons, U. S 24 6 1-2 H. F. Porter, U. S 6 3 T. J. Ahearne, U. K 48 11 1-4	A. L. Gutterson, U. S. 24 11 A. W. Richard, U. S. 6 3 3-4
Pole vault	C. Dvorak, U. S11 6 J. Flanagan, U. S68 1	E. T. Cooke, U. S	G. Lindblom, Sweden 48 5 1-10 H. S. Babcock, U. S. 12 11 1-2 M. J. McGrath, U. S. 180 5
Shotput, 16-lb Shotput, 16-lb., both hands	R. Rose, U.S48 7	R. Rose, U. S	P. McDonald, U. S 50 32 R. Rose, U. S 90 5 1-2
Discus, both hands	M. Sheridan, U. S. 128 10 1-2	M. Sheridan, U. S 134 2	A. R. Taipale, Fin 148 1 1-2 A. R. Taipale, Fin 271 9 3-4
Javelin, throw		E. Lemming, Sweden 179 10 1-2	E. Lemming, Sweden 198 4 J. J. Saaristo, Fin 358 11

OTHER RECORDS IN 1912.—400 metre relay race won by England, with Sweden second. 3,000 metre team race won by United States, Sweden second, and Finland third. 1,600 metre relay race won by United States, France second, England third. 3,000 metre cross-country won by Sweden, Finland second, England third. Pentathlon and Decathlon both won by James Thorpe, United States.

WORLD'S SPORTING RECORDS	BASEBALL CHAMPIONS		
50 yarde A P Postle Valgordie Australia .og 4 45	National League Champions		
50 yards—A. B. Postle, Kalgoorlie, Australia :05 1-10 75 yards—L. H. Cary, Princeton, 1891 :07 3-5 100 yards—Howard P. Drew, Cal. Mar. 28,	Nore:—Chicago team was first Champion in 1876		
100 yards—Howard P. Drew. Cal. Mar. 28.	Year Winner W. T. 0%		
1914	Year Winner W. L. % 1887—Detroit. 79 45 637 1888—New York. 84 47 641 1880—New York. 84 47 641		
100 metres—F. L. Ramsdell, Pittsburgh, Pa :10 1-5			
100 metres—F. L. Ramsdell, Pittsburgh, Pa. 110 1-5 150 yards—R. E. Walker. 143 3-5 150 yards—Swimping—Harry Habber 1014	1889—New York		
150 yards—Swimming—Harry Hebner, 1914 1:31 1-5	1890—Brooklyn		
150 yards—R. E. Walker. 114 3-3 150 yards—Swimming—Harry Hebner, 1914. 131 1-5 220 yards—R. C. Craig, Mich., 1911. 21 1-5 300 yards—B. J. Wefers, 1896. 30 3-5 440 yards—M. W. Long, N. Y. A. C., 1900. 47 440 yards (Indoors)—T. J. Halpin, N. Y.	1892—Boston		
440 yards—M. W. Long, N. Y. A. C., 1900. :47	1893 — Boston 86 43 667 1894 — Baltimore 89 39 .605 1895 — Baltimore 87 43 .669		
440 yards (Indoors)-T. J. Halpin, N. Y.	1894—Baltimore		
1913	1895—Baltimore		
400 metres—J. E. Meredith, Pa., 1912	1896—Baltimore		
600 yards—M. W. Sheppard, N. Y., 1910 1:10 4-5 800 metres—J. E. Meredith, Pa., 1912 1:51 9-10	1897—Boston		
880 yards—J. E. Meredith, Pa., 1912 1:51 9-10			
880 yards (Indoors)—E. B. Parson, Buffalo. 1:54 3-5	1900—Brooklyn. 82 54 .603		
880 yards (Indoors)—E. B. Parson, Buffalo 1:54 3-5 1,000 yards—M. W. Sheppard, N. Y., 1910 2:12 2-5	1901—Pittsburgh		
1 mile—N. S. Tabor, Brown, Univ., 1915. 4:12 3-5	1902—Pittsburgh		
1913	1899—Brooklyn 101 47 685 1900—Brooklyn 82 54 603 1901—Pittsburgh 90 49 647 1902—Pittsburgh 103 36 741 1903—Pittsburgh 91 49 650 1904—New York 108 47 693 1905—New York 105 48 686 1906—Chicago 116 36 763 1907—Chicago 107 45 704 1908—Chicago 99 55 643		
2 miles—Alfred Shrubb, England, 1904 9:09 3-5	1905-New York		
2½ miles—Hannes Kolehmainen, N. Y., '13. 11:59 2-5	1906—Chicago		
2 miles (Indoors)—William Kramer, Long	1907—Chicago		
Island, 1913 9:19 1-5	1908—Chicago		
Island, 1913	1909—Pittsburgh. 110 42 .724 1910—Chicago. 104 50 .675		
5,000 metres—H. Kolehmainen, Finland, 1912. 14:36 3-5	1911—New York		
3 miles—Alfred Shrubb, England, 1903 14:30 3-3 miles—Alfred Shrubb, England, 1903 14:17 3-5 miles—Alfred Shrubb, England, 1904 19:23 3-5 miles—Alfred Shrubb, England, 1904 24:33 2-5 miles—Alfred Shrubb, England, 1904 24:33 2-5 miles—Ingorable Manuel Model Manuel Manu	1912—New York 103 48 .682		
3 mile walk—C. E. Larner, England, 1905. 20:25 4-5 4 miles—Alfred Shrubb, England, 1904 19:23 3-5	1913—New York		
5 miles—Alfred Shrubb, England, 1904 24:33 2-5	1914—Boston		
o muco (macoro) liminos atoremanen,	100 Chicago 107 45 704 704 708 Chicago 99 55 643 1909 Pittsburgh 110 42 724 724 724 724 724 725		
N. Y., 1913	American League Champions		
5 mile walk—C. E. Larner, England, 1905 36:00 1-5 10 miles—Alfred Shrubb, England, 1904 50:40 3-5			
10 miles (Indoors)—L. Tewinima, Carlisle	Year Winner W. L. % 1900—Chicago 82 53 .607		
Indian School	1900—Chicago		
10 mile walk—H. V. L. Ross, England 1:15:35	1902—Philadelphia		
15 miles—F. Appleby, England, 1902 1:20:04 2-5	1901—Chicago		
10 miles (Indoors)—L. Tewhima, Carlisle Indian School	1904 - Boston		
50 miles—P. Golden, N. V. 1883 7:20:47	1905—Philadelphia		
95 miles—S. Hatch, Chicago, 1916 14:50:30	1907—Detroit		
100 miles—J. Saunders, N. Y., 188217:36:14	1908		
120 miles—J. Saunders, N. Y., 188222:47:23	1909—Detroit		
1 hour-J. Bouin, France, 191311 m. 1,442 yds.	1910—Philadelphia		
1016 :14	1911—Philadelphia		
220 yards hurdle—A. C. Kraenzlein, 1898 :23 3-5	1913—Philadelphia		
440 yards hurdle-H I. Hillman Ir N V	1914—Philadelphia 99 53 .651		
1904	1915—Boston		
1904 :54 3-5 100 yard swim—Duke Kahanamoku, July, 1915 0:54 2-5	1916—Boston		
1915 0:54 2-5 200 yard swim—H. J. Hebner. 2:07 2-5 500 metre swim—Herbert E. Vollmer, N. Y.,	World's Championship Series		
500 metre swim—Herbert E. Vollmer, N. Y.	Year Teams Games Won*		
1117, 1910 0:31 3-3	Reals Real		
12-lb. shot—R. Rose, San Francisco, 1908 57 ft. 3 in.	1885—St. Louis (N) vs. Chicago (A.A.) 3		
16-lb. shot—Ralph Rose, San Francisco, 1909 51 it.	1886—St. Louis (A.A.) vs. Chicago (N) 2 2 1887—Detroit (N) vs. St. Louis (A.A.) 11 4		
16-lb. shot—Ralph Rose, San Francisco, 1909 51 ft. 12-lb. hammer—Pat. Ryan, Irish Am. A.C. 1914 213 ft. 9 1-8 in. 16-lb. hammer—Patrick Ryan, N. Y., 1913 189 ft. 6 1-2 in. 56-lb. weight—M. J. McGrath, 1911 40 ft. 6 3-8 in. Running long jump—Patrick O'Connor, Ire-			
56-lb, weight—M. I. McGrath, 1911	1888—New York (N) vs. St. Louis (A.A.) 6 4 1889—New York (N) vs. Brooklyn (A.A.) 6 3 1890—Brooklyn (N) vs. Louisville (A.A.) 3		
Running long jump-Patrick O'Connor, Ire-	1890—Brooklyn (N) vs. Louisville (A.A.) 3 3		
Running long jump—ratrick O Collide, He- land			
Standing broad jump—Ray C. Ewry, St. Louis,	1894—New York (N) vs. Baltimore (N) 4 0 1895—Cleveland (N) vs. Baltimore (N) 4 1 1896—Baltimore (N) vs. Cleveland (N) 4 0		
1904	1895—Cleveland (N) vs. Baltimore (N) 4 1 1896—Baltimore (N) vs. Cleveland (N) 4 0		
Standing high jump—I. Goehring N. V. 1913 5 ft. 5 3-4 in.	1897—Baltimore (N) vs. Boston (N) 4 1		
Pole vault-Marc S. Wright, Dartmouth, 1912 13 ft. 2 1-4 in.	1900—Boston (A) vs. Pittsburgh (N) 5 3 1905—New York (N) vs. Philadelphia (A) 4 1 1906—Chicago (A) vs. Chicago (N) 4		
Running hop, step and jump-D. F. Ahearne,	1905—New York (N) vs. Philadelphia (A) 4 1 1906—Chicago (A) vs. Chicago (N) 4 2		
1904. 11 ft. 4 /-8 in. Running high jump—Geo. Horine, Cal., 1912. 6 ft. 8 l-4 in. Standing high jump—L. Goehring, N. Y., 1913. 5 ft. 5 3-4 in. Pole vault—Marc S. Wright, Dartmouth, 1912. 13 ft. 2 l-4 in. Running hop, step and jump—D. F. Ahearne, N. Y., 1911. 50 ft. 11 in. Throwing the discuss (both hands)—A. R. Taipale, Finland, 1912	1906—Chicago (A) vs. Chicago (N) 2 1907—Chicago (N) vs. Detroit (A) 4		
Throwing the discus (both hands)—A. K.	1907—Chicago (N) vs. Detroit (A) 4		
Taipaic, Finiand, 1912	1908—Chicago (N) vs. Detroit (A) 4 1 1 1909—Pittsburgh (N) vs. Detroit (A) 4 3		
	1910—Philadelphia (A) vs. Chicago (N) 4 1		
	1905—New York (N) vs. Philadelphia (A)		
Longest Baseball Game	1912—Boston (A) vs. New York (N) # 3		
Tongot Sectoral Commo	1913—Philadelphia (A) vs. New York (N) 4		
The longest baseball game on record was played May 31, 1901	1915—Boston (A) vs. Philadelphia (N) 4		
in the Three I League when Decatur beat Bloomington 2 to 9 in twenty six innings. The next longest was the 4 to 1 twenty-four inning game won by the Athletics from Boston Sept. 1, 1906.	1908—Chicago (N) vs. Detroit (A) 4 1 1908—Chicago (N) vs. Detroit (A) 4 3 1910—Pilladelphia (A) vs. Chicago (N) 4 1 1911—Philadelphia (A) vs. New York (N) 4 2 1912—Boston (A) vs. New York (N) 4 3 1913—Philadelphia (A) vs. New York (N) 4 4 1914—Boston (N) vs. Philadelphia (A) 4 0 1915—Boston (A) vs. Philadelphia (N) 4 1 1916—Boston (A) vs. Brooklyn (N) 4 1 Score in first row refers to first mentioned team. A—		
in twenty six innings. The next longest was the 4 to 1 twenty-	Score in first row refers to first mentioned team. A—American, N—National.		
four inning game won by the Athletics from Boston Sept. 1, 1906.	American, N—National.		

THE PANAMA CANAL

On August 15, 1914, the Panama Canal was opened to commerce.

TYPE OF CANAL

The Canal has a normal summit elevation of 85 feet above the sea, reached by a flight of three locks located at Gatun, on the Atlantic side, and by one lock at Pedro Miguel and a flight of two at Mirafores, on the Pacific side; all these locks are in duplicate, that is, having two chambers, side by side. Each lock has a usable length of 1,000 ft. and a width of 110 ft. The summit level, extending from Gatun to Pedro Miguel, a distance of about 31.5 miles, may be varied between 79 and 87 feet above sea level by means of the spillway in the dam at Gatun. The Gatun Lake, which has an area of 164.23 square miles, is maintained by earth dams at Gatun and Pedro Miguel. The Chagres River and other streams, empty into this lake. A small lake, about two square miles in area, with a surface elevation of 55 feet, lies between Pedro Miguel and Miraflores, the valley of the Rio Grande being closed by an earth dam on the west side and a concrete dam with spillway on the east the west side and a concrete dam with spillway on the east side at Miraflores.

The approaches from deep water to the Gatun Locks on the Atlantic side, and from deep water to the locks at Miraflores, on the Pacific side, are sea level channels, about 7 and 8 miles in length, respectively, and each 500 ft. wide.

LENGTH. WIDTH AND DEPTH OF CANAL

The Canal is 50.3 miles in length from deep water in the Caribbean Sea to deep water in the Pacific Ocean. The distance from deep water to the shore line in Limon Bay is about 4½ miles, and from the Pacific shore line to deep water is about 4 miles; hence the length of the Canal from shore to shore is

4 miles; hence the length of the Canal from shore to shore is approximately 41½ miles.

The channel from Mile 0 in the Caribbean to Mile 6.90 at the north end of Gatun Locks is 500 feet wide; from the south end of Gatun Locks to Mile 23.70 not less than 1,000 feet wide; from Mile 23.70 to Mile 26.90, 800 feet wide; from Mile 26.90 to Mile 27.45, 700 feet wide; from Mile 27.45 to Mile 31.50, 500 feet wide; Mile 31.50 to Pedro Miguel lock (Mile 39.68), 300 feet wide, and from Pedro Miguel lock to Miraflores locks, and from Miraflores locks to deep water in Panama Bay, 500 feet wide.

The average width of the channel in this project is 649 feet, and the minimum width 300 feet. The minimum depth of

the Canal is 41 feet.

GATUN DAM

The Gatun dam along the crest is about 8,000 feet long, including the spillway, or about 1½ miles, and 2,100 feet wide

including the spillway, or about 1½ miles, and 2,100 feet wide at its greatest width.

The crest of the dam is at an elevation of 105 feet above sea level, or 20 feet above the normal level of Gatun Lake, and 100 feet wide. The width of the dam at the normal water level of the lake, i. e., 85 feet above sea level, is about 388 feet.

The central part of the dam was filled by hydraulic process, protected by rock toes on both sides of the dam. The upper slope on the lake side of the dam is further protected by 10 ft. thickness of rock. The other parts of the dam were filled with available material from canal excavation.

In entering the Canal from the Atlantic side, a ship proceeds from deep water in Limon Bay to Gatun Locks, a distance

In entering the Canal from the Atlantic side, a ship proceeds from deep water in Limon Bay to Gatun Locks, a distance of 6.9 miles, through a channel 500 feet wide; passing into the locks 0.78 of a mile in length, the ship is carried up to an elevation of 85 feet above sea level in 3 lifts to the level of the water in Gatun Lake; thence for a distance of 16 miles the channel is 1,000 feet or more in width to Mile 23.7; from this point to Mile 27.45 the channel is 800 feet wide; from this point to Mile 27.45 the channel is 700 feet wide; from this point to Mile 27.45 the channel is 500 feet wide; from this point to Mile 31.5 near Bas Obispo, the channel is 500 feet wide; from Miguel lock, through the Culebra Cut, to Mile 39.68 the channel is 300 feet wide. Going through Pedro Miguel lock, 0.37 of a mile in length, the vessel is lowered to the level of Miraflores Lake, 55 feet above mean tide, through which there is a channel 500 feet wide to Miraflores Locks at Mile 41.71, thence through the two Miraflores locks, 0.58 of a mile in length, the vessel is lowered to tide level and proceeds through a channel 500 feet wide to deep water in the Pacific at Mile 50.3. The time required for the passage of a ship of medium size

through the entire length of the Canal is estimated at from 9½ to 10 hours, and for larger vessels from 10½ to 11 hours.

TOLLS

By proclamation of the President, dated November 13, 1912, the following rates of toll to be paid by vessels using the Panama

Canal were prescribed:

On merchant vessels carrying passengers or cargo, \$1.20 per net vessel ton—each one hundred cubic feet—of actual

earning capacity;

earning capacity;
On vessels in ballast without passengers or cargo, 40% less than the rate of tolls for vessels with passengers or cargo;
Upon naval vessels, other than transports, colliers, hospital ships, and supply ships, 50 cents per displacement ton;
Upon Army and Navy transports, colliers, hospital and supply ships, \$1.20 per net ton, the vessels to be measured by the same rules as are employed in determining net tonnage of merchant vessels.

Tolls are levied on the basis of the cargo and passenger carrying capacity of each vessel. The determination of capacity is embraced in a set of rules of measurement of vessels for The Panama Canal, according to which the net tonnage of a vessel is the units of interior space of 100 cubic feet, or 2.83 cubic meters, which may be devoted to carrying cargo or pas-

The interior cargo-carrying capacity or net canal tonnage is the primary basis on which tolls are levied, but there is additional charge for open space on deck occupied by cargo

or deckload.

A vessel may be measured for its Panama Canal certificate by the surveyor of any port of the United States, and copies of the rules for measurement have been sent to the Governments of all the principal maritime countries where duly appointed foreign officials may measure vessels and issue certipointed foreign officials may measure vessels and issue certificates; and the canal maintains a 'staff to measure vessels which arrive at the canal without a certificate, and to check the certificates issued at other ports. The canal force can measure and certificate vessels ordinarily in from 24 to 36 hours, if the masters furnish the constructor's blue prints and the ship's certificate of national registry, or check a previously issued certificate in an hour unless it contains exceptional control of the contr tional errors.

Gross tonnage, according to The Panama Canal rules, includes, in general, the total capacity of the vessel or the cubical contents of all spaces below the upper deck and of all permanently covered or closed-in spaces on or above that deck, excepting spaces specifically designated for exemption from

such measurement.

such measurement.

The principal deductions from the gross tonnage for the determination of the net tonnage include, in general, spaces which serve for the navigation of the ship, its propulsion, spaces devoted to the officers and crew, for its fuel supply, boatswain's stores, feed-water tanks, and spaces framed in around the funnels for the admission of light and air to the engine and fire rooms. No space not included in the gross tonnage is ever deducted in the determination of the net ton-

nage.

The canal system of designation of tonnage differs somewhat from the systems in practice in the United States and various foreign nations and from that for the measurement of vessels for the Suez Canal. The classifications of space for registry are at such variance that it was decided to work out a separate plan for the measurement of vessels for the canal which should be fair to all, irrespective of previous registers.

try.

On loaded commercial vessels the toll charge is \$1.20 per net canal ton, plus \$1.20 per 100 cubic feet of deck load, provided that the sum of these charges shall not exceed an amount equivalent to a charge of \$1.25 per net ton on the vessel, as measured for United States registry.

Vessels going through the canal without cargo or passengers—that is, in ballast—will be charged 72 cents per net canal ton, provided that if this amount is not equivalent to the product of the vessel's net tonnage according to measurement for American registry by 75 cents, the larger sum shall be collected. be collected.

In commercial operations, steamship agents charge freight on the basis of weight or of space occupied. On the basis of space, they ordinarily rate 40 cubic feet as a ton. Accordingly, the 100 cubic feet called a ton in canal measurement could contain two and one-half tons of cargo, on the commercial basis of 40 cubic feet to the ton. In the case of ideally compact loading, the canal toll of \$1.20 per ton of canal space would be equivalent to a charge of 48 cents per ship's ton of cargo.

FACILITIES FOR SHIPPING

In line with its policy of making the canal thoroughly service-able in a commercial sense, the Government is equiping it with all requisite facilities to minimize the incidental delays and

expenses of vessels passing through it.

The facilities are now ample for the present traffic, except for the lack of a large dry dock. The concrete has been placed for the permanent dry dock at Balboa, which will accommodate the largest vessels afloat, and is to be finished early in 1916.

the largest vessels afloat, and is to be finished early in 1916.

Extensive fuel-oil handling plants, with which are connected tanks belonging to individuals and companies, as
well as those erected by the Government, have been established at both terminals of the canal. Oil can be supplied
to ships at the rate of 1,200 barrels per hour to each vessel.

The permanent coaling plants, now under construction at
both terminals, will each be able to load coal into bunkers of
vessels at the rate of 2,000 tons per hour. The plant at the
Atlantic entrance is to have a storage capacity of a little over
400,000 tons, and that at the Pacific entrance will have a capacity of 200,000 tons. Both will be equiped with unloading and
loading cranes. These plants are to be completed early in 1916.

Water is supplied from the mains on the terminal wharves
and piers. The water in Gatun Lake is fresh, but is not safe
for drinking purposes in an untreated state. The water sold
at the docks is drawn from the regular water-supply systems
and has been purified.

GENERAL SUPPLIES

As The Panama Canal and the Panama Railroad Company are together operating a large number of vessels of a variety

of classes, from tugs to ocean-going passenger and freight vessels, supplies for practically any kind of vessel are kept on hand on the Isthmus. Such supplies are for sale to all ships using the canal, or calling at the terminal ports. The storehouses at Cristobel and Balboa have in stock all standard lubricants, light and heavy hardware, cordage, and miscellaneous ship-chandlery supplies.

Foodstuffs and the general variety of merchandise handled by the commissary department of The Pangua Canal may be

Foodstuffs and the general variety of merchandise handled by the commissary department of The Panama Canal may be purchased for ships. Prices are generally lower than the retail prices in the United States, or possibly about 10 per cent higher than the wholesale prices there, and compare favorably with prices in any port of the world.

A large stock of fresh meats, vegetables, fruits, canned groceries, bakery products, etc., is always on hand, and advance arrangements can be made for supplies of any article obtainable in the markets of the world. Ice may be purchased in any reasonable quantity. Laundry is handled quickly.

Except for the limitations imposed at present by the absence of a large dry dock, and of lathes for turning the largest crank shafts and longest line shafts of modern vessels, the canal shops can do practically any repair work which a vessel might bring. Sufficient materials, including heavy billets and all sizes of plates and angles, are kept on hand to meet every probable need. The foundry can make steel castings up to 5 tons in weight, and iron eastings up to 10 tons, as well as brass

probable need. The foundry can make steel castings up to 5 tons in weight, and iron castings up to 10 tons, as well as brass castings of any ordinary size.

The Hotel Washington at Colon and the Hotel Tivoli at Ancon, adjoining Balboa, and the Hotel Aspinwall, on Taboga Island, are owned and operated by the Government for the accommodation of the traveling public. Reservations can be made in the same way as at privately owned hotels.

Ancon Hospital is equipped with 800 beds. It treats about 35,000 cases a year, in which approximately 7,000 surgical operations are performed. Its staff of physicians and surgeons includes men of marked experience and ability and several experts in tropical medicine. The treatment of case from neighboring countries and from ships is a part of its remifrom neighboring countries and from ships is a part of its regular work.

THE RELIEF OF BELGIUM

Among the achievements of the year 1915 in which Amer-Raning the achievements of the year Value of the Commission for Relief in Belgium. This Commission obtained, delivered and distributed all the food that has reached the Belgian people, and

Rener in Belgium. This Commission obtained, delivered and distributed all the food that has reached the Belgian people, and to it is due the fact that the nation is still alive. It was officered and manned almost wholly by Americans, forty-nine of the fifty-three members of the Commission, who all served without pay, being Americans, as were also many of the workers in the field in Belgium and the great army of helpers all over the United States. At its head in London was Mr. Herbert C. Hoover, the well known mining engineer, and in charge of the work in the United States was Mr. Lindon W. Bates.

In October, 1914, the fall of Antwerp closed the last door by which food could be brought into Belgium. To prevent this catastrophe the Commission was organized under the auspices of the diplomatic representatives of the United States, Spain and Holland, and with the consent of the belligerent powers, Great Britain, France and Germany. Constituted so as to give ample guarantees of its neutrality, the Commission was enabled to appeal to the whole world for aid in its great task. The whole world generously responded and millions of dollars in money and food were contributed by the charitable in every country. The share of the United States was greatest, its contribution amounting to not less than \$5,000,000, chiefly in wheat, flour and other foods.

The Commission had not been long in existence before

and other foods.

The Commission had not been long in existence before it became plain that the task before it was not merely to relieve a present crisis, but to provision the whole Belgian people for a period of some months—at least until the next harvest. This meant providing not less than 80,000 tons of food per month for approximately eight months, at a total cost of over \$60,000,000—an undertaking beyond the scope of any charitable effort, no matter how strenuous its appeal.

Financial support on a great scale was therefore sought and obtained, chiefly from Belgian banks, financiers and business

who provided a fund of working capital of about men, who provided a fund of working capital of about \$13,000,000. Fortunately the greater part of the people of Belgium were able to pay for the very slender daily ration available, and a small profit charged upon the supply that was sold, sufficed, together with the gifts of the charitable throughout the world, to make up the amount required by the destitute. Throughout the winter of 1914-15 each person received the small ration of ten ounces of food per day, and it was actually furnished at a price slightly less than that of similar food in the

furnished at a price slightly less than that of similar food in the open market at London.

This is the essential achievement of the Commission:—To have devised an international, neutral organization such as could operate under the conditions of war, across hostile frontiers with the consent of the several belligerent powers; to have gathered food in vast quantities by gift and purchase; to have transported it across 3,000 miles of sea; to have distributed it fairly and equitably to 7,000.000 people, of whom 1,500,000 were destitute; to have accomplished this largely with volunteer labor, at a total cost of less than 2% of the turn-over, and to have thus saved from famine an entire nation in a state of siege and unable to do anything for themselves.

RAILWAY MILEAGES

The overwhelming leadership of the United States as a railway nation is shown clearly in a comparison of individual countries, for after its 254,769 miles (including 653 for Alaska), Germany is second with only 39,513 miles, while European Russia is third with 38,563. Then follow in order, British East India, 34,572; France, 31,737; Canada, 29,233; Austria-Hungary, 28,641; Great Britain, 23,385; Argentina, 20,593; Mexico, 15,805; Brazil, 15,491; Italy, 10,933; Spain, 9,517; Sweden, 8,984, and Japan, 6,811.

TABLE A.—Number of days saved, for vessels of different speeds, by the Panama Canal route between the United States and Pacific ports, American and foreign.	the Atlantic-dum pois of	
	TABLE A.—Number of days saved, for vessels of different speeds, by the Panama Canal route between	the United States and Pacific ports, American and foreign.

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TABLE B .- Number of days saved, for vessels of different speeds, by the Panama Canal route between European ports and ports of Pacific America and of New Zealand.

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FEDERAL INCOME TAX LAW FOR INDIVIDUALS AND FIDUCIARIES

PERSONS TAXABLE

Every citizen or resident of the United States is taxable in respect to net income from all sources. Non-resident aliens are taxable in respect to net income from all sources within the United States.

SPECIFIC EXEMPTION

For the purpose of the normal tax only, an exemption of \$3,000 is allowed—i, e., a person is not taxable unless his net income is in excess of \$3,000. In the case of the head of a family, or a married man with his wife living with him, or a married woman with her husband living with her, the exemption is \$4,000. But only one deduction of \$4,000 os hall be made from the aggregate income of both husband and wife living together.

the aggregate moome of both husband and wife living together. Husband and wife separated and living permanently apart are each entitled to the personal exemption as if single.

When a husband dies during any year the widow should make up her return of her income for the whole year, and is entitled to the personal exemption as for her single state at the above of the year of the year.

the close of the year.

For the purpose of the additional tax, the income of every person is taxable separately. Under the new law, a non-resident alien may receive the benefit of the specific exemption, but only by causing to be filed a true and accurate return of his total income received from all sources in the United States.

KATES

The tax is annual in respect to income of the preceding calendar year. The new rates apply, beginning with the year

Normal Tax-Two per cent.

MC	unt	ionai 1a	х—					
1%	on	amount	over	\$20,000,	and	not	over	\$40,000
2%	66	46	66	40,000.	66	[66	45	60,000
3%	22	66	66	60,000,	66	6.6	66	80,000
4%	1 66	66 🔨	96	80,000,	66	66	66	100,000
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8%	33	. 66 .	66	250,000,	66	22	66	300,000
9%	66	66	46	300,000,	66	66.	66	500,000
10%	66	66	66	500,000,	66	35	66	1,000,000
11%	66	46	66	1,000,000,	66	46	46	1,500,000
12%	66	64	- 66	1,500,000,	22	46	iee.	2,000,000
13%	46	45	66	2,000,000				_,,

ANNUAL RETURNS

A personal return of income is required from every person of lawful age, having a net income of \$3,000 or over for the taxable

lawful age, having a net income of \$5,000 of over for the taxable year.

Under the new law, a return will be required if net income amounts to \$3,000, although said income consists in part or in whole of dividends. As a result, a person may have to make a return, although he may have to pay no tax. Husband and wife must make a return if the income of either amounts to \$3,000, or if the aggregate income of both exceeds \$4,000.

In case of the death of a person during a year, the executor or administrator is required to make the personal return of income of the decedent to the date of his death, and may claim the specific exemption. In case of illness, absence, or non-residence, the return may be made by an agent, who is then responsible in relation to the return. In the case of minors and incompetents, the guardian or committee is required to act as agent in making the personal return and paying the tax, normal and additional, for the person under his care. Similar requirements apply to fiduciaries of non-resident aliens.

In like manner, the responsible heads, agents, or representatives of non-resident aliens who are in charge of property owned or business carried on in the United States are required to make full and complete return of the income therefrom, on behalf of such aliens, and to pay the tax, normal and additional.

behalf of such aliens, and to pay the tax, normal and additional.

FILING RETURNS

Time for filing return is on or before March 1st. The com-

penalty of 50 per cent. addition to the tax, and liability to fine. If, however, a return, although late, is made voluntarily and without notice from the collector, and it is shown that the failure to file it was due to a reasonable cause and not to wifful neglect, no penalty is to be added. In case of failure to make return within the required time, the collector may render a return upon such information as he may have; he may summon and examine the person. In case of sickness or absence, the collector may allow such further time, not exceeding thirty days, for filing the return, as he deems necessary.

Returns are filed at the office of the Collector of Internal Revenue of the district in which the person has his legal residence or his principal place of business. The acknowledgment of a return may be made before the collector or any commissioned deputy, or before any officer authorized by law to ad-

sioned deputy, or before any officer authorized by law to administer oaths. Special rulings are as follows:

(1) A return of income rendered by an individual residing abroad may be acknowledged before any duly appointed officer of the country in which he resides, authorized to administer

oaths and use an official seal

oaths and use an official seal.

(2) If a return is executed in a State before a notary who is not required by the laws of the State to use a seal, and none is used, or before a justice of the peace, a certificate of an officer possessing a seal should be filed with the Commissioner of Internal Revenue, showing that the notary or justice is duly commissioned and authorized to administer oaths; otherwise the certificate to the return will not be recognized, except that such certificate of authority may be waived in that State or in any other State where such jurats are accepted in that form in the State Courts.

(3) Returns acknowledged before commanding officers of

(3) Returns acknowledged before commanding officers of naval vessels while at sea or in foreign ports will be accepted.

(4) Returns executed before a summary court officer, United States Army, will not be accepted.

All of the necessary forms in connection with the income tax may be obtained from the Collector of Internal Revenue of the district.

INCOME

Gross income, under the law, includes gains, profits, and income from any source whatever, in whatever form received. For the purpose of the additional tax, the income of the individual shall include the share to which he would be entitled of the profits accumulated by any mere holding company beyond the reasonable requirements of the business, upon decision to that effect by the Secretary of the Treasury.

WHEN RETURNABLE

Income, gains and profits, and losses, also, are in general to be included in the return for the year in which actually realized.

regardless of when accrued.

In determining the profits of a business, however, the usual method of merchants is followed by figuring from the books method of merchants is followed by figuring from the books and inventory. Income from a partnership is returnable when determined, whether distributed or not; a partner should, therefore, include in his return his share of the profits of the partnership as shown by the books when closed at the end of the business year falling within the calendar year for which the individual return is being made.

A promissory note is held to be payment and is returnable as income when received.

Interest on bank accounts is returnable for the year in which it is credited.

Coupons or interest on bonds due and payable prior to March 1, 1913 (the date of incidence of the income tax), are considered income prior to the law, although not collected until the present, even although funds were not previously

until the present, even introduction available.

The new law provides that any individual keeping accounts upon any basis other than that of actual receipts and disbursements, unless the Commissioner of Internal Revenue finds that the basis does not clearly reflect his income, may, subsuch other basis does not clearly reflect his income, may, subject to regulations, make his return upon the basis upon which his accounts are kept.

DIVIDENDS

Time for filing return is on or before March 1st. The commissioner of Internal Revenue may grant a reasonable extension be made out of earnings or profits accrued since March 1, 1913. of time to persons residing or traveling abroad. Failure to file return within the required time subjects the person to a cash value.

GAIN OR LOSS ON PROPERTY

No account is taken, for purposes of income tax, of fluctuations in market value or arbitrary changes in the book value of securities or other property, but gain or loss is counted only when determined as the result of a completed transaction.

Profit or loss is the difference between the selling price and

the cost.

Under the new law, in the case of property acquired before March 1, 1913, instead of pro rating, the fair market price or value of the property as of that date is taken as the basis.

In the case of various parcels of stock of the same issue bought and sold at different dates, the stock sold at any time, if its identity cannot be established by the certificate, should be charged against the stock first purchased and remaining unsold.

PARTICULAR ITEMS OF INCOME

Special payments made by an employer as extra compensa-tion or bonus to employees, if made as compensation for services ton or bonus to employees, if made as compensation for services rendered and in pursuance of a contract, express or implied, or a long time practice, if the total compensation is not unreasonable in amount, may be treated as expenses of the business, and are taxable income to the employees. It is otherwise, however, where the payment is purely optional and gratuitous. In any case, Christmas gifts are regarded as gifts, even though given in pursuance of a regular practice. Where an employee is furnished living quarters in addition to salary, the rental value of such quarters is taxable income. Allowances to an employee for expenses while away from home, however, are not regarded as income, except to the extent, if any, that such allowance may exceed the actual necessary expenses. Easter offerings and fees received by clergymen for funerals, masses, baptisms, marriages, etc., are regarded as taxable income. Christmas gifts, however, are not. Where property acquired by gift, descent, devise or bequest, is subsequently sold at a price greater than the appraised value at the time the property was so acquired, the gain is held to be taxable income. Accrued interest paid by the purchaser of a bond is income to the seller, and the purchaser need include in his return only that portion of the current interest later received by him which accrued after the purchase. Proceeds of sale of rights to subscribe to new stock in a corporation are held to be taxable income. Pensions paid by the United States are taxable income.

Alimony or separate maintenance fund, paid to a wife, is a part of the wife. rendered and in pursuance of a contract, express or implied, or

Alimony or separate maintenance fund, paid to a wife, is taxable income to the wife. It is a personal expense, and, therefore, not deductible in the return of the person who pays therefore, not deductible in the return of the person who pays it. Money paid to the person insured by an accident insurance policy on account of accidents sustained is taxable income. The proceeds of accident insurance policies paid upon the death of the person insured to the beneficiaries are to be treated like the proceeds of life insurance policies. An amount received as the result of a suit or compromise for "pain and suffering" is held to be taxable income. Amounts received, however, by way of reimbursement for expenses incurred incident to an accident are not subject to tax. Income from rental of property is taxable, but in computing the same deduction may be made of expenses, including premiums on fire insurance and an allowance for depreciation. Commissions paid to a real estate agent for collection of rents and menagement of property may be deducted. Improvements made by a tenant as part payment of rent are to be added to the rent as income to the land-lord.

Royalties or other income from patent rights are taxable. In case of sale of all rights under a patent, the proceeds over and above amounts expended in perfecting the invention and obtaining the patent, are taxable income.

FARMS AND FARMERS

All gains, profits and income derived from the sale or exchange of farm products, whether produced on the farm or purchased and resold by a farmer, shall be included in the return of income for the year in which the products were actually marketed and sold; and all allowable deductions, including the legitimate expenses incident to the production of that year or future years, may be claimed in the return of income for the tax year in which the right to such deduction shall arise, although the products to which such expenses and deductions are incidental may not have been sold or exchanged for money, or a money equivalent, during the year for which the return is rendered.

Rents received in crop shares shall likewise be returned as of the year in which the crop shares are reduced to money or a money equivalent, and allowable deductions, likewise, shall be claimed in the return of income for the tax year to which they apply, although expenses and deductions may be incident to products which remained unsold at the end of the year for which the deductions are claimed. When farm products are held for favorable market prices, no deduction on account of shrinkage in weight or physical value, or losses by reason of shrinkage or deterioration in storage, shall be allowed. Rents received in crop shares shall likewise be returned as lowed.

Cost of stock purchased for resale is an allowable deduction

Cost of stock purchased for resale is an allowable deduction under the item of expense, but money expended for stock for breeding purposes is regarded as capital invested, and the amounts so expended do not constitute allowable deductions except as hereinafter stated.

Where stock has been purchased for any purpose, and afterwards dies from disease or injury, or is killed by order of the authorities of a State or the United States, and the cost thereof had not been claimed as an item of expense, the actual purchase price of such stock, less any depreciation which may have been previously claimed, may de deducted as a loss. Property destroyed by order of the authorities of a State or of the United States may, in like manner, be claimed as a loss: but if rein-States may, in like manner, be claimed as a loss; but if reimbursement is made by a State or the United States, in whole or in part, on account of the stock killed or property destroyed, the amount received shall be reported as income for the year in which reimbursement is made.

which reimbursement is made.

The cost of farm machinery is not an allowable deduction as an item of expense, but the cost of ordinary tools may be included under this item.

There may be claimed a reasonable allowance for depreciation on farm buildings (other than a dwelling occupied by the owner), farm machinery and other physical property, including stock purchased for breeding purposes; but no claim for depreciation on stock raised or purchased for resale will be allowed.

Farmers who keep books according to some approved method of accounting which clearly shows the net income, may prepare their returns from such books, although the method of accounting may not be strictly in accordance with the provisions hereof.

hereof.

A person cultivating or operating a farm for recreation or pleasure, on a basis other than the recognized principles of commercial farming, the result of which is a continual loss from year to year, is not regarded as a farmer. In such cases, if the expenses incurred in connection with the farm are in excess of the receipts therefrom, the entire receipts from sale of products may be ignored in rendering a return of income; and the expenses incurred being regarded as personal expenses will not constitute allowable deductions in the return of income derived

from other sources.

EXEMPT INCOME

The following income is exempt from tax:

The following income is exempt from tax:

(1) The proceeds of life insurance policies paid to individual beneficiaries upon the death of the insured; the amount received by the insured as a return of premiums paid by him under life insurance, endowment, or annuity contracts, either during the term or at the maturity of the term mentioned in the contract or upon the surrender of the contract. Dividends on paid-up policies, however, are taxable income. They are considered the same as dividends of corporations subject to the tax on income and are, therefore, deductible as credits in relation to the normal fax.

tion to the normal tax.

(2) The value of property acquired by gift, bequest, devise or descent, but the income from such property is to be included

as income.

as income.

(3) Interest upon the obligations of a State or any political subdivision thereof, or upon the obligations of the United States or its possessions, or securities issued under the provisions of the Federal Farm Loan Act of July 17, 1916. "Political subdivision" of a State includes any special assessment district for a public purpose, such as schools, streets or highways, sewerage, levee, land reclamation.

(4) The compensation of the present President of the United States during his present term, and of the judges of the Courts of the United States now in office, and the compensation of all officers and employees of a State or any political subdivision thereof, except when such compensation is paid by the United States.

DEDUCTIONS

In computing net income, the following deductions are allowable:

In computing net income, the following deductions are glowable:

(1) Necessary expenses actually paid in carrying on any business or trade, not including personal, living or family expenses. Premiums paid on life insurance do not constitute allowable deductions. Nor do premiums for insurance on property occupied by the owner as a dwelling.

Assessments made by a corporation on its capital stock are regarded as an investment of capital and do not constitute an allowable deduction to the stockholder.

(2) Interest paid within the year on indebtedness.

(3) All taxes paid within the year, not including those assessed for local benefits. Income tax paid in any year is deductible in the return made in the following year. Customs duties paid are deductible as taxes, or, in the case of a dealer, may be added to the cost of the goods. Where taxes assessed on its shares are paid on behalf of shareholders by a bank or other corporation, such taxes are an allowable deduction to the shareholders in respect to the normal tax. The person entitled to the deduction is the owner of the stock at the time the taxes became due and payable.

titled to the deduction is the owner of the stock at the thickness became due and payable.

(4) Losses actually sustained during the year, incurred in business or trade, or arising from fires, storms, shipwreck and from theft or other casualty, when not compensated for by insurance or otherwise. Losses from dealings in property, in order to be deductible under this paragraph, must be incurred order to be deductible under this paragraph, must be incurred in business or trade. A person may be engaged in more than one business or trade, and may deduct losses incurred in all. To come within the terms "business and trade," however, the transaction must be in the line of an actual, regular occupation.

(5) In transactions entered into for profit, but not connected.

Persons carrying on business in partnership are held for income tax only in their individual capacity, and the share of the profits of a partnership to which any taxable partner would be entitled if the same were divided, whether divided or not, is to be included in the return of such partner. Any partnership, upon request of the Commissioner of Internal Revenue or of the district collector, is required to render a correct return of the earnings, profits and income of the partnership, setting forth the items of gross income and the proper deductions, and the names of the partners entitled to shares.

Limited partnerships are held to be associations within the meaning of the law, and make their returns as corporations, and their earnings distributed are treated in the same manner as dividends.

as dividends.

organization, elect officers and a board of managers, have a distinctive name, a fixed situs, and distribute their net earnings upon the basis of the amount of capital invested by the members or owners, are held to be associations within the meaning of the law.

of the law.

Premiums paid on life insurance policies taken out by a partnership upon the lives of individual members of such partnership constitute allowable deductions in ascertaining the net profits of the partnership. When such policies mature, however, or upon the death of the insured partner, the amount received as life insurance should be included in the gross income of the partnership. The requirement of withholding the tax at the source does not apply to income payable to partnerships. A form of certificate is provided for use of partnerships, organizations and fiduciaries for the purpose of establishing their identity and non-liability to having the tax withheld at the source on income payable to them. income payable to them.

FIDUCIARIES

Guardians, trustees, executors, administrators, receivers, conservators, or persons, corporations, or associations acting in any fiduciary capacity, are required to make returns of the income of the estates in their hands. A person acting under power of attorney in the management of property, with full power and authority to deal with the property, but having no title thereto in a trust capacity, is not a fiduciary within the meaning of the law, and is, in general, under no obligation to make a return for his principal.

In the case of estates of deceased persons during the period of settlement, and of trust estates accumulating for the benefit of unborn or contingent persons, or persons with contingent

an business or trade. A person may be elagated in more than ane business or trade, and may deduct losses incurred in all. To come within the terms "business and trade," however, the transaction must be in the line of an actual, regular occupation. (5) In transactions entered into for profit, but not connected with the business or trade of the person, the losses actually assertained to less that the sustained during the year, to an amount not exceeding the profits arising therefrom.

(6) Debts due to the taxpayer actually ascertained to be worthless and charged off during the year.

(7) A reasonable allowance for depreciation of property arising out of its use or employment in business or trade, and not of its use or employment in business or trade, and for depletion of oil and gas wells and mines. Depreciation relates only to physical property, subject to wear and tear and obsolescence. The rule for ascertaining allowance for depreciation is to compute it upon the basis of the cost of the property and the probable number of years constituting its life. No deduction is allowed for expenditures for new buildings, permanent improvements or betterments, nor for expense of response of rade and the probable number of years constituting its life. No deduction is allowed for expenditures for new buildings, permanent improvements or betterments, nor for expense of response of the same of a beneficiary exceeds \$3,000 so as to require withhold the normal tax only, deducted as credits. They must, however, be included at only, deducted as credits. They must, however, be included in the return, even though the taxpayer is subject to the normal tax only, deducted as credits. They must, however, be included in the return, even though the taxpayer is subject to the normal tax only, deducted as credits. They must, however, be included in the return, even though the taxpayer is subject to the normal tax only, deducted as credits. They must, however, be included in the return, even though the taxpayer is subject to the normal tax

return for each ward having a net income in excess of \$3,000. Similar requirements apply to fiduciaries for non-resident aliens. On notice, a fiduciary is not subject to withholding of the tax at the source on income payable to him as such; the fiduciary himself is treated as the source.

to be included in the return of such partner. Any partnerip, upon request of the Commissioner of Internal Revenue
of the district collector, is required to render a correct return
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of the earnings, profits and income of the partnership, setting
orth the items of gross income and the proper deductions, and
ore names of the partners entitled to shares.

Limited partnerships are held to be associations within the
learning of the law, and make their returns as corporations,
and their earnings distributed are treated in the same manner
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Private banks, likewise, which have the form of corporate

WITHHOLDING OF TAX

Withholding and payment at the source of income, relate to Withholding and payment at the source of income, relate to the normal tax only. Corporations, associations, partnerships, and fiduciaries are not subject to having the tax withheld on income payable to them. A form is provided for use to establish their identity and non-liability. It need not be filed, however, except in the case of interest from bonds and similar obligations of corporations, etc., if the payor assumes responsibility for the knowledge that the payee is not subject to withholding.

(1) ANNUAL PAYMENTS OVER \$3,000

Any person, firm, corporation, etc., having the payment of income to any individual as specified, exceeding \$3,000 for any taxable year, is required to withhold and to pay the normal tax thereon. The requirement applies to interest, rent, salaries, wages, premiums, annuities, or other fixed or determinable annual or periodical income, except dividends or earnings of corporations, etc., subject to the tax on income. A return is required, before March 1, showing the amount of income upon which the tax has been withheld, and the name and address of the person receiving the income. The tax should not be withheld until amount of payments during the year reaches an aggregate in excess of \$3,000; thereupon the tax should be withheld in respect to the whole amount. held in respect to the whole amount.

RULINGS ON PARTICULAR POINTS

Fees and compensation of professional men, except fixed amounts payable at stated times, such as annual retainers of attorneys, are not subject to withholding of the tax. Comamounts payable at stated times, such as annual retainers of attorneys, are not subject to withholding of the tax. Commissions or bonus paid to salesmen are income for the calendar year in which determined and paid. If paid on a definite basis, they are determinable income, and are to be added to any stated salary for that year in determining whether the compensation exceeds \$3,000 so as to require withholding of the tax. Likewise, in the case of a definite share of profits distributed to an employee. If an employee, out of the salary paid him, has to pay his travel or other expenses of his employment, the salary is not subject to withholding of the tax, the amount of his income not being fixed or determinable. Alimony, or a fixed sum paid as maintenance to a wife living apart, is subject to withholding of the tax by the husband. A tenant, renting more than one piece of property from the same owner, should withhold the tax if the combined rentals exceed \$3,000. Where a lessee holds under a lease from two or more individuals, information should be given him of the share of each lessor, and he should withhold the tax in respect to each lessor separately. Notes received for items of income are regarded as payment, and the tax should be withheld at the time the notes are given. Where notes are given for interest which is payable at a future date, the debtor is required to withhold the tax upon payment, although the notes may have been purchased or discounted the control that the very without notice that they were interest notes. at a future date, the debtor is required to withhold the tax upon payment, although the notes may have been purchased or discounted by one without notice that they were interest notes. Banking institutions receiving deposits of money are not required to withhold the tax on interest paid or accruing to depositors, whether on open account or on certificates of deposit.

(2) Interest on Bonds

In the case of interest on bonds and mortgages or deeds of trust or other similar obligations of corporations, joint stock companies, associations and insurance companies, the require-ment of withholding applies, although the interest during the year does not amount to \$3,000, unless exemption is claimed. A monthly list return of withholdings is required, and also

A monthly list return of withholdings is required, and also annual list return and payment.

A corporation or organization subject to the requirement of withholding may, upon notice to the Collector of Internal Revenue, appoint paying and withholding agents to act for it in matters pertaining to the tax. A simple promissory note not exceeding one year in time is not considered similar to bonds, mortgages or deeds of trust of corporations, within this

to preserve the corpus of the estate are permissible only when actually reserved or applied, in accordance with the facts, or proper provisions of the trust, the requirements of law or order of court. The beneficiary should include in his return only the income actually received from the estate during the year. The fiduciary, however, should withhold the tax in respect to the beneficiary's distributable interest in the income of the estate during the year, whether distributed or not.

The provision, and the interest a contract to withholding of the tax unless the amount of interest to corp certificate issued by a corporation in lieu of dividends, bearing interest and redeemable at a specified time not longer than one year. Certificates of ownership must be filled by owners of such bonds or similar obligations with the coupons or interest orders. But no certificate of ownership is required if the bonds are registered as to interest as well as principal, in if the bonds are registered as to interest as well as principal, in which case the payor corporation should stamp the interest order or check either "Income tax withheld by debtor," or, if exemption has been claimed, "Exemption claimed by certificate filed with debtor."

if exemption has been claimed, "Exemption claimed by certificate filed with debtor."

If coupons or interest orders are not accompanied by certificates of ownership as required, the first bank or collecting agent receiving the same for collection will deduct the tax and attach its own certificate, giving the name of the owner, or, if the owner is not known, the name of the person presenting the same. A separate certificate is required for each maturity of coupons of each issue of bonds. Where bonds change hands between interest dates, at a price plus accrued interest, the purchaser only need file a certificate of ownership with the current coupon. Where, however, a corporation purchases or retires its own bonds between interest dates, the seller should file a certificate covering the portion of the accrued interest period prior to the sale. In case of joint ownership, the certificate may be signed by one of the joint owners, giving the names and interests of the other owners. The person signing, however, may claim exemption only in his own right, the other owners, to secure exemption, must sign claims to be attached to the certificates of ownership. Duly authorized agents may sign such certificates are filed, if satisfied as to the identity and responsibility of agents, will stamp or write on the face of the certificate, "Satisfied as to identity and responsibility of agent." Certificates so marked may be accepted by all others to whom presented without question as to the authority of the agent. The use of initials is authorized in the execution of certificates of ownership. A married woman should sign her own Christian name. own Christian name.

(3) FOREIGN ITEMS

Similarly, in the case of coupons, checks or bills of exchange for or in payment of interest on bonds of foreign countries or on foreign mortgages or like obligations (not payable in the U. S.), or of dividends upon the stock or interest upon the obligations of foreign corporations, associations and insurance companies, the tax is to be withheld, although the amount does not exceed

\$3,000. Dividends of foreign corporations that derive their entire income from business done wholly within the United States, and pay the income tax thereon, are treated like dividends of domestic corporations. Where foreign corporations have issues of bonds with interest payable within the United States, and have fiscal agents within the United States, the collection of interest on such bonds will be treated as a domestic transaction, if certificates of ownership are filed in the usual manner. In the case of such foreign items, the withholding and return to be used by:

are to be made by:

are to be made by:

(1) Any banker or person who sells or otherwise realizes such coupons, checks, or bills of exchange.

(2) Any person who obtains payment (not in the United States) in behalf of another of such dividends and interest by means of coupons, checks, or bills of exchange.

(3) Any dealer in such coupons who purchases the same for any such dividends or interest (not payable in the United States), otherwise than from a banker or another dealer in such

Any person, firm, or corporation undertaking as a matter of business or profit such collections, is required to obtain a license and to be subject to regulations of the Commissioner of Internal

(4) PERSONAL OR SPECIFIC EXEMPTION

A person may claim his personal or specific exemption of \$3,000 or \$4,000, as the case may be, in respect to any of his income. He may allow the tax to be withheld on his income subject to withholding, and claim his exemption on other income included in his personal return, or he may apply part or all of his exemption to income otherwise subject to withholding of the tax. To secure exemption from withholding at the source,

the recipient of the income must file a signed notice in writing claiming exemption with the withholding agent, at least thirty days prior to March 1, otherwise his remedy is only by application for refund of the tax.

(5) BENEFIT OF DEDUCTIONS

Similarly, to secure the benefit of deductions allowed by the law in computing net income, in respect to income otherwise subject to withholding of the tax, the recipient of the income must file, at least thirty days prior to March 1, a true and correct return of his income from all other sources, and the deductions claimed, either with the withholding agent, or with the collector of the district, who will thereupon notify the withholding agent. If there is more than one withholding agent in respect to whom the claim for benefit of deductions is to apply, the claim should be filed with the collector of the district of any such withholding agent, with a statement attached setting forth the names of the withholding agents, the amounts withheld by each, and the amount claimed from each as exempt. The collector will notify the withholding agents accordingly. When any amount allowable as a deduction is known at the time of the receipt of income, a certificate may be filed stating the amount of such deduction and making a claim for allowance of the same.

Any certificate claiming exemption or benefit of deductions should be filed by the withholding agent along with his return. Similarly, to secure the benefit of deductions allowed by the

1st Ohio......Cincinnati

The withholding agent should not pay the tax withheld until address the time allowed for claiming exemption or benefit of deductions—that is, not before thirty days prior to March 1. The withholding agent is not required to pay the tax withheld until notice of assessment, and then within the usual time for payment of income tax. The withholding agent should not pay the tax withheld until

ASSESSMENT AND PAYMENT

Assessments are made by the Commissioner of Internal Revenue, and all persons are to be notified of the amounts for which they are liable on or before June 1, and the tax is payable under the new law on or before June 15th. Upon any taxes due and unpaid after June 15th, and for ten days after notice and demand by the Collector, 5 per cent. is added, and interest at the rate of 1 per cent. per month, except in the case of the estates of insane, deceased or insolvent persons.

The Collector issues in every case an office receipt, which alone is evidence of payment. There is no objection to collectors signing also commercial receipts or voucher checks, but they should stamp them "Not an official receipt."

In the case of a debtor paying tax withheld, a separate receipt may be required in respect to each creditor for whom tax is paid. A creditor, by giving his debtor a receipt for the tax. Assessments are made by the Commissioner of Internal

*Includes \$20,937.10 on account of income tax collected on

railroads in Alaska.

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777.28

361.94

358.64

94.63 CAL

94.63

INTERNAL-REVENUE C	OLLECTION DISTRICTS
DISTRICT ADDRESS	DISTRICT ADDRESS
DISTRICT ADDRESS Alabama (includes Mississippi)Birmingham	11th OhioColum
Alaska (see Washington).	18th OhioCleve
Arizona (see New Mexico).	OklahomaOklah
ArkansasLittle Rock	OregonPort
1st CaliforniaSan Francisco	1st PennsylvaniaPhiladel
6th CaliforniaLos Angeles	9th PennsylvaniaLanca
Colorado (includes Wyoming)	13th PennsylvaniaScra
Connecticut (includes Rhode Island)	23rd PennsylvaniaPittsb
Delaware (see Maryland).	Rhode Island (see Connecticut).
FloridaJacksonville	South Carolina
Georgia	South Dakota (see North Dakota). Tennessee
Idaho (see Montana).	
1st Illinois	Texas
5th Illinois	Vermont (see New Hampshire).
8th Illinois Springfield	2nd VirginiaRichn
13th Illinois	6th Virginia
6th IndianaIndianapolis	Washington (includes Alaska)
7th IndianaTerre Haute	West VirginiaParkers
3rd IowaDubuque	1st Wisconsin
KansasWichita	2nd Wisconsin
2nd KentuckyOwensboro	Wyoming (see Colorado).
5th KentuckyLouisville	
6th KentuckyCovington	INCOME TAX RECEIPTS
7th KentuckyLexington	(Year ending June 30, 1916)
8th Kentucky Danville Louisiana New Orleans	Income tax, normal\$23,995,77
Maine (see New Hampshire).	Income tax, additional:
Maryland (includes Delaware and the D. of C.)Baltimore	Net incomes exceeding \$20,000 and not over
3rd Massachusetts	\$50,000. 6,091,7 Net incomes exceeding \$50,000 and not over
1st MichiganDetroit	Net incomes exceeding \$50,000 and not over
4th Michigan. Grand Rapids	\$75,000. 4,071,30 Net incomes exceeding \$75,000 and not over
MinnesotaSt. Paul	Net incomes exceeding \$75,000 and not over
Mississippi (see Alabama).	\$100,000
1st MissouriSt. Louis	Net incomes exceeding \$100,000 and not over
6th Missouri	\$250,000
Montana (includes Idaho and Utah)	eron one exceeding \$250,00 and not over
NebraskaOmaha	\$500,000
Nevada (see 1st California).	Accepted offers in compromise, etc. 183,1
New Hampshire (includes Maine and Vermont)Portsmouth 1st New Jersey	
5th New Jersey	Total\$67,943,59
New Mexico (includes Arizona)	
1st New York	INTERNAL-REVENUE RECEIPTS FOR THE FISC
2nd New York (S. of 24th St., N. Y.)	YEARS ENDED JUNE 30, 1915 AND 1916
3rd New York (N. of 24th St., N. Y.)	Receipts 1915 1916
14th New York Albany	Ordinary only\$283,410,138.71\$303,507,73
21st New YorkSyracuse	Emergency
28th New YorkBuffalo	Corporation income
4th North CarolinaRaleigh	Individual income
5th North Carolina	
North and South Dakota Aberdeen S Dak	Total

LEGAL HOLIDAYS

Contrary to the general impression there is no national legal holiday. All holidays are made legal by State statute. Even Thanksgiving Day is a legal holiday only when made so by a law of the State. The President's proclamation merely announces the day.

There are six holidays observed generally throughout the

New Year's Day—All States except Massachusetts.
† Washington's Birthday (Feb. 22)—All jurisdictions except New Mexico.

INDEPENDENCE DAY (July 4).

LABOR DAY (first Monday in Sept.)—All States except New
Mexico, Wyoming and part of Louisiana; May 1, Philippine

THANKSGIVING DAY—Whenever appointed; usually the last Thursday in November; all jurisdictions except Hawaii. CHRISTMAS DAY (Dec. 25).
These holidays and Memorial Day are legal holidays to all governmental executive departments by act of Congress. Other

governmental executive departments by act of Congress. Other legal holidays are:

Jan. 8—Anniversary Battle New Orleans, La.

Jan. 19—Lee's Birthday: Ala., Ark., Fla., Ga., Miss., N. C.,

S. C., Va. (Lee-Jackson Day in Va.)

Feb. 12—Lincoln's Birthday: Cal., Col., Conn., Del., Ill.,

Ind., Iowa, Mich., Minn., Mont., Nev., N. J., N. Y., N. D.,

Ore., Pa., S. D., Utah, Wash., W. Va., Wyo.

Feb. 14—Admission Day: Ariz.

Mar. 2—Anniversary Texan Independence: Tex.

Mar. 4—Inauguration Day: D. C. (every fourth year).

Mar. 7—Mardi Gras (Shrove Tuesday): Ala., Fla. in counties where there are carnival associations, La. in Parish of Orleans.

Mar. 22—Emancipation Day: Porto Rico.

April 12—Anniversary of the Adoption of the Halifax Resolutions: N. C.

Mar. 22—Emancipation Day: Porto Rico.
April 12—Anniversary of the Adoption of the Halifax Resolutions: N. C.
April 13—Birthday of Thomas Jefferson: Ala.
April 19—Patriots' Day: Me., Mass.
April 21—Good Friday: Del., Fla., La., Md., Minn., N. J., N

† Aug. 13—Assumption Day: P. I.
Aug. 16—Bennington Battle Day: Vt.
Sept. 9—Admission Day: Cal.
Sept. 12—Defenders' Day: Md.
Oct. 12—Columbus Day: Ala., Ariz., Ark., Cal., Col., Conn.,
Del., Idaho, Ill., Ind., Kan., Ky., Md., Mass., Mont., Neb.,
Nev., N. H., N. J., N. M., N. Y., Ohio, Okla., Ore., Pa., P. R.,
R. I., Tex., Vt., Wash., W. Va.
Oct. 18—Alaska Day: Alaska.
Oct. 31—Admission Day: Nev.
Nov. 1—All Saints' Day: La.
Nov. 6—General Election Day: All States, except Ala.,
Ark., Conn., Del., Ga., Kan., Me., Mass., Miss., Neb., Utah,
W. Va. (Afternoon only in Ohio.)
Nov. 23—Repudiation Day: Frederick Co., Md., afternoon

N. Va. (Afternoon only in Ohio.)
Nov. 23—Repudiation Day: Frederick Co., Md., afternoon

Dec. 30—Rizal Day: Philippine Islands.

*Arbor Day is a legal holiday in Ariz. on the first Friday after Feb. 1 in some counties, on the first Friday after April 1 in others; in Neb., April 22; in Utah, April 15; in Wyo., on

in others; in Neb., April 22; in Utah, April 15; in Wyo., on day set by governor.

Primary Election Days—Cal., Mo., Nev., S. D., Tex., Wis. Congressional Election Day—Md.

Fast Day (whenever appointed): Cal., Col., Conn., D. C., Ga., Hawaii, Idaho, Ill., Ind., Iowa, Kan., Ky., Md., Mich., Mont., Neb., N. H., N. J., N. M., N. Y., N. D., Ohio, Okla., Ore., Pa., P. R., R. I., S. D., Tenn., Tex., Utah, Va.

Thursday of Fair Week—S. C. in counties where State Agricultural and Mechanical Society holds an annual fair.

Saturdays after 12:00 noon—Col. cities of 100,000 or more; Del., Newcastle Co. only June to Sept. inclusive, city of Wilmington all the year; D. C.; Ill. cities of 200,000 or over; Ind. for banks etc. in cities of over 35,000; La. towns of over 15,000; Me.; Md. in Baltimore, Annapolis, Baltimore Co., Hartford Co. and Montgomery Co.; Mich.; Mo. cities of over 300,000; N. J., N. Y.; Pa.; S. C. in Charleston and Richland Counties; Tenn.; and Va. In Virginia entire Sat. a holiday as to commercial paper.

Regatta Day—3rd Saturday in Sept. in Hawaii. Sunday—All jurisdictions of the United States.

OTHER ANNIVERSARIES.

Jan. 29—Carnation Day; birthday of William McKinley. Feb. 2—Candlemas or Groundhog Day. Feb. 14—St. Valentine's Day. Mar. 15—Birthday of Andrew Jackson. Mar. 17—St. Patrick's Day. Apr. 27—Birthday of Gen. U. S. Grant. May 1—Dewey Day. June 14—Flag Day. June 17—Bunker Hill Day.

July 12—Orangemen's Day.
July 15—Stony Point Day; St. Swithin's Day.
Sept. 16—Antietam Day.
Oct. 31—Hallowe'en.

† Also designated Arbor Day in Texas.

† Surrender of Manila to American forces.

† Other states provide by law for an arbor day, but do not make it a legal holiday except in a few cases for school children.

PROGRESS IN LENGTH OF OCEAN STEAMSHIPS

		Feet	. Ions
1838	1st to exceed	200	Great Western 1,340
1845	66 - 86	300	Great Britain 2,084
1858	46 46	680	Great Eastern18,918
1871	a a	400	Oceanic (1) 3,807
1881	66 - 1 66	500	Servia
1893	46 46	601	Campania12,952
1899	66 '66	685	Oceanic (2) 17,247
1904	66 66	709	Baltic23,000
1907	46 46	762	Mauretania31,938
1910	66 , 66	852	Olympic
1914	907 x 100 x 58		Vaterland 54,282

ing or sailing 15 nautical miles in one hour. The Nautical Mile = 6,080 feet (the Statute Mile being 5,280 feet, and the Geographical Mile 6,076.8 feet). The following table shows the equivalents of 1 to 33 knots in statute miles.

					PHOT2	
2	1	1.1515	12	.13.8181.	23	26.4848
7	2	2.3030	13	.14.9696.	24	27.6363
)	3	3.4545	14	.16.1212	25	28.7878
ì	4	4.6060	15	.17,2727.	26	29.9393
•	5	5.7575	16	.18.4242	27	31.0908
	6	6.9090	17	.19.5757	28	32.2424
	7	8.0606	18	.20.7272	29	33.3939
	8	0.2121	19	.21.8787	30	34.5454
	0	10.3636	20	.23.0303	31	35.6969
	10	11.5151	21	. 24.1818.	32	36.8484
	11	12.6666	22	.25.3333.	33	37.9999
;	10	11.5151	21	. 24.1818.	32	36.8484

SPEED OF SHIPS The Knot is a measure of speed of ships; the expression "15 knots" indicates that the vessel in question is capable of steam-

UNITED STATES GOVERNMENT

EXECUTIVE DEPARTMENT

Salary. *\$75,000 President—Woodrow Wilson of New Jersey...... (Presidential term expires March 4th, 1921.) 12,000 Vice-President-Thomas R. Marshall of Indiana

Secretary to President-Joseph P. Tumulty of N. J...

CABINET PORTFOLIOS

(Officers appointed by President for no fixed term.)

Duties.-To attend to all correspondence with the ambassa-Duties.—To attend to all correspondence with the ambassadors and consuls of the U. S., and with representatives of foreign powers sent to the U. S.; and to negotiations relating to foreign affairs of the U. S. He is also the medium of correspondence between the President and the governors of the States; also of foreign executives. He countersigns and affixes the U. S. seal to all executive proclamations. He is custodian of the treaties made with foreign states, and of the laws of the U. S. He grants and issues necessoris. He is also charged U. S. He grants and issues passports. He is also charged with certain annual reports to Congress relating to commercial information received from diplomatic and consular officers.

DEPARTMENT OF THE TREASURY
Sec. of Treasury—William Gibbs McAdoo of N. Y... \$12,000

Duties.—To manage national finances, superintend collection of all revenues. He is the government bookkeeper and grants all warrants for moneys expended. Submits to government an annual budget. He also controls the construction of public buildings; the coinage and printing of money; the administra-tion of the life-saving, revenue cutter, and the public bealth and marine hospital branches of the public service. General supervision over national banks, also a new bureau of shipping.

DEPARTMENT OF WAR Sec. of War-Lindley Miller Garrison of N. J. \$12,000

Duties.—General supervision of Army; also supervision of construction of Panama Canal; the U. S. Military Academy at West Point; national cemeteries; publication of Official Records of the War of the Rebellion; Board of Ordnance and Fortification and matters relating to river and harbor improvements; establishment of harbor lines, and approves plans and locations of bridges which are constructed over navigable waters of the

DEPARTMENT OF JUSTICE Attorney-General—Thomas Watt Gregory of Texas... \$12,000

Duties.—Represents the U.S. and the Cabinet in all matters of law; exercises a general superintendence and direction over U.S. attorneys and marshals in all judicial districts, and provides special counsel for the U.S. whenever required by any department of the government. Has charge of all prosecutions against illegal combinations under the Sherman Anti-Trust Law.

POST OFFICE DEPARTMENT
Postmaster-General—Albert Sidney Burleson of Texas \$12,000

Duties.—Appoints all officers and employees of the Dept., except the four Assistant Postmaster-Generals and the Purchasing Agent, who are appointed by the President; appoints postmasters whose compensation does not exceed \$1,000; makes postal treaties with foreign governments, with the advice and consent of the President. General charge of the postal service.

NAVY DEPARTMENT Sec. of Navy-Josephus Daniels of North Carolina.... \$12,000

Duties.—General supervision over Navy. Superintends construction armament and employment of warships. Has charge of Navy Yards.

DEPARTMENT OF INTERIOR

Sec. of Interior—Franklin Knight Lane of Cal...... \$12,000 Duties.—Superintends the bureaus for patents, pensions and bounty lands, public lands and surveys, the Indians, education,

*\$25,000 also allowed for traveling expenses.

railroads, geological survey, reclamation of arid lands, investigation of methods of mining. Has charge of all national parks and reservations and the distribution of appropriations for agricultural and mechanical colleges.

DEPARTMENT OF AGRICULTURE

Sec. of Agriculture-David Franklin Houston of Mo. . \$12,000

Duties.—Besides having general supervision of business re-lating to agriculture and the gathering of agricultural statistics, he has charge of the Weather Bureau and the Forest Service. He also has control of the quarantine stations for imported cattle, of interstate quarantine rendered necessary by sheep and cattle diseases, and of the inspection of cattle-carrying vessels; and directs the enforcement of the meat inspection and lood and drug laws under which the inspection of domestic and imported food products is carried on. He enforces the laws prohibiting the transportation of interstate commerce of game killed in violation of local laws. He furnishes sample seeds of various vegetables and flowers.

DEPARTMENT OF COMMERCE

Sec. of Commerce-William Cox Redfield of N. Y.... \$12,000

Duties.—To promote mining, manufacturing, shipping, fishery, and transporting interests. His duties also comprise investigation of corporations. He has charge of the Light House Service, taking of the census, making of coast and geodetic surveys, collecting of statistics relating to foreign and domestic commerce, inspection of steamboats, supervision of fisheries, supervision and control of the Alaskan fur seal, salmon and other fisheries, and jurisdiction over merchant vessels and seamen of the IL S. seamen of the U.S.

DEPARTMENT OF LABOR

Sec. of Labor-William Bauchop Wilson of Penn.....\$12,000

Duties.—To promote and develop the welfare of wage earners. He is also charged with the administration of the laws relating to immigration and the Chinese exclusion laws. The Bureau of Naturalization and the Bureau of Labor Statistics come under this department as well as the Children's Bureau.

THE JUDICIARY

Supreme Court of the United States Justices Born Born Edward D. White, Chief Justice, La. Nov. 3, 1845
Joseph McKenna, California Aug. 10, 1843
Oliver Wendell Holmes, Mass Mar. 8, 1841 Appointed 1910 1898 1902 Onver Wendell Holmes, Mass. Mar. 8, 1841
William R. Day, Ohio. Apr. 17, 1849
Willis Van Devanter, Wyoming Apr. 17, 1859
Mahlon Pitney, New Jersey Feb. 5, 1858
James Clark McReynolds, Tenn Feb, 3, 1862
Louis D. Brandeis, Mass. Nov. 13, 1856
John H. Clarke, Ohio Sept. 18, 1857 1903 1910 1912 1914 1916

The salary of the Chief Justice is \$15,000, of each Associate Justice \$14,500. The term is "during good behavior."

Circuit Courts of Appeals

There are nine Circuit Courts covering the various sections of the country. Each court is presided over by a justice from the Supreme Court when possible. Other members are District Judges specially designated in the circuit. Salary \$7,000.

District Courts

There are over 90 District Courts in the United States distributed according to population. The judges receive an annual salary of \$6,000;

Commerce Court

In 1909 Congress established a Commerce Court to have jurisdiction over all cases for the enforcement of orders of the Interstate Commerce Commission except those where the payment of money was involved. There are five judges, each receiving an annual salary of \$7,000 and \$1,500 for expenses.

Court of Customs Appeals Composed of five judges to hear and decide questions as to classification and rates of dutiable goods. A court created by the tariff act of 1909.

DIPLOMATIC SERVICE OF THE UNITED STATES AMBASSADORS FROM FOREIGN COUNTRIES AT WASHINGTON

Argentina—Frederic Tesun Stimson	Salary .
Austria-Hungary (C Pentield Po	17,500
Brazii—Edwin v. Morgan, N. Y	17,500
Cline—Joseph H. Snea.	17,500
France—William G. Sharp, Ohio.	17,500
Germany—James W. Gerard, N. Y. Great Britain—Walter H. Page, N. Y.	17,500
Italy—Thomas Nelson Page, Va.	17,500
Japan—Geo, W. Guthrie, Pa	17,500
Mexico—Henry P. Fletcher, Pa	17,500
Russia—David R. Francis, Mo.	17,500
Spain—Joseph E. Willard, Va. Turkey—Abram I. Elkus, N. Y.	17,500
Turkey Murain I. Enkus, N. Y	17,500

ENVOYS EXTRAORDINARY AND MINISTERS PLENIPOTENTIARY

beigium—Brand Whitlock, Onio	§12,004
Bolivia—Iohn D. O'Rear. Mo.	10,000
* Bulgaria — Charles I. Vodicka, Ill.	10,000
China—Paul S. Keinsch, Wis.	12,000
Colombia—T. A. Thomson, Tex	10,000
Costa Rica—Edward J. Hale, N. C.	10,000
Cuba—William E. Gonzales, S. C.	12,000
Denmark-Maurice F. Egan, D. C.	10,000
Dominican Republic—William W. Russell, D. C	10,000
Ecuador—Chas. S. Hartman, Mont	10,000
Egypt—Agent and Consul General	6,500
† Greece—Garrett Droppers, Mass	10,000
Guatemala—William Hayne Leavell, Miss	10,000
Haiti—Arthur Bailly-Blanchard, La.	10,000
Honduras—John Ewing, La.	10,000
Liberia—James L. Curtis, N. Y., Minister and Consul	
General	5,000
Morocco-Vacant	10,000
# Netherlands—Henry Van Dyke, N. J	12,000
Nicaragua—Benj. L. Jefferson, Colo	10,000
Norway—A. G. Schmedeman, Wis.	10,000
Panama—William J. Price, Ky	10,000
Paraguay—Daniel F. Mooney, Ohio	10,000
Persia—John L. Caldwell, Kan	10,000
Peru—Benton McMillin, Tenn	10,000
Portugal—Thomas H. Birch, N. J.	10,000
Salvador—Boaz W. Long, N. Mex	10,000
Siam-Wm. H. Hornibrook, Ore	10,000
Sweden—Ira Nelson Morris, Ill	10.000
Switzerland—P. A. Stovall, Ga	10,000
Uruguay-Robert E. Jeffrey, Ark	10,000
Switzerland—P. A. Stovall, Ga. Uruguay—Robert E. Jeffrey, Ark. Venezuela—Preston McGoodwin, Okla.	10,000

- * Accredited to Roumania, Serbia and Bulgaria.
- Accredited also to Montenegro.
- Accredited also to Luxemburg.

Relainm-Rrand Whitlack Ohio

SECRETARIES OF EMBASSY OR LEGATION

The Secretaries of Embassy or Legation assigned for duty in the Department of State are Rutherford Bingham, of D. C.; Leland Harrison, of Ill.; Alexander C. Kirk, of Ill.; and William Walker Smith, of Ohio. Those unassigned are William Whiting Andrews, of Ohio; William P. Cresson, of Nev.; and Nelson O'Shaughnessy, of N. Y.

Unless otherwise indicated names given are those of Envoys Extraordinary and Ministers Plenipotentiary. A. E. and P. means Ambassador Extraordinary and Plenipotentiary. Extraordinary and Ministers Plenipotentiary. A. E. and P. means Ambassador Extraordinary and Plenipotentiary. Argentiaa—Mr. Rómulo S. Naón, A. E. and P. Austria-Hungary—Count Adam Tarnowski, A. E. and P. Belgium—Mr. E. Havenith.

Bolivia—Señor Don Ignacio Calderon.
Brazil—Mr. Domicio da Gama, A. E. and P. Bulgaria—Mr. Stephan Panaretoff.
Chile—Señor S. A. Basouman, A. E. and P. China—Mr. Vi Kyuin Wellington Koo.
Colombia—Señor Don Julio Betancourt.
Costa Rica—Señor Don Manuel Castro Quesada.
Cuba—Dr. Carlos Manuel de Céspedes.
Denmark—Mr. Constantin Brun.
Dominican Republic—Señor Dr. A. Pérez Perdomo.
Ecuador—Señor Dr. Don Gonzalo S. Córdova.
France—Mr. J. J. Jusserand, A. E. and P. Great Britain—Sir Cecil Arthur Spring-Rice, A. E. and P. Greate Britain—Sir Cecil Arthur Spring-Rice, A. E. and P. Greece—Mr. A. Vouroz, Chargé d'Affaires.
Guatemala—Señor Don Joaquin Méndez.
Haiti—Mr. Solon Ménos.
Honduras—Dr. Alberto Membreño. (Absent). Señor Don R. Camilo Diaz, Chargé d'Affaires.
Ialy—Count Vincenzo Macchi di Cellere, A. E. and P. Japan—Viscount Sutemi Chinda, A. E. and P.

Japan—Viscount Sutemi Chinda, A. E. and P. Mexico—Vacant.

Mexico—Vacant.
Netherlands—Chevalier W. L. F. C. van Rappard.
Nicaragua—Señor Gen. Don Emiliano Chamorro.
Norway—Mr. H., H. Bryn.
Panama—Señor Dr. Don Eusebio A. Morales. (Absent). Señor
Don J. E. Lefevre, Chargé d'Affaires.
Paraguay—Mr. Héctor Velázquez. (Absent).
Persia—Mehdi Khan. (Absent). Mirza Ali Kuli Khan, Chargé

Persia—Mehdi Khan. (Absent). Mirza Ali Kuli Khan, Chargé d'Affaires.
Peru—Mr. Manuel de Freyre y Santander, Chargé d'Affaires.
Portugal—Viscount de Alte.
Russia—Mr. George Bakhméteff, A. E. and P.
Salvador—Dr. Don Rafael Zuldivar.
Salvador—Dr. Don Rafael Zuldivar.
Siam—Phya Prabha Karavongse.
Spaim—Señor Don Juan Riaño y Gayangos, A. E. and P.
Sweden—Mr. W. A. F. Ekengren.
Switzerland—Dr. Paul Ritter.
Turkey—A Rustem Bey, A. E. and P. (Absent). Abdul Hak
Hussein Bey, Chargé d'Affaires.
Uruguay—Dr. Carlos Maria de Pena.
Venezuela—Señor Dr. Don Santos A. Dominici.

CONSULAR SERVICE

The consular service was reorganized in 1908 allowing for 57 consuls general divided into seven classes according to importance. The consuls general representing us at London and Paris belong to the first class. Each receives a salary of \$12,000. The consuls general at Berlin, Havana, Hamburg, Hongkong, Rio de Janeiro and Shanghai represent the second class and each receives \$8,000. The salary in the other classes varies

from \$3,000 to \$6,000.

Besides the consuls general there are 240 consuls and 255 consular agents located in the principal cities of the various countries of the world, each receiving a salary ranging from

\$2,000 to \$8,000.

CONSULAR SERVICE OF THE UNITED STATES

Residence	Residence Argentina		
Buenos Aires	Buenos Aires		
		. Consu	
	Austria-Hungary	a 10 1	
Budapest, Hungary	Transfer &	. Consul-General	
Carishad Austria		. Consui	
Programa Austria		Consul	
Reichenherg, Austria.		Consul	
Trieste, Austria		. Consul	
Vienna, Austria		. Consul-General	

Residence	Belg	gium	Runk
Antwerp Brussels			. Consul-General
Ghent			. Consul
Liege			. Consul
	IP.	n wil	

		Brazii	
Rahia			Consul
Coore			Consular Agent
Ctala	 		Consular Agent
Manaos	 		Concular Agent
Maranhao	 		. Consular Agent
Para	 		Consul

Residence	Brazil-Cont'd	Rank	Residence France and Dominions-Cont'd Rank
Pernambuco	Brazil—Cont'd	. Consul	Bayonne
Rio de Janeiro		Consul-General	Bordeaux Consul Boulogne-sur-mer Consular Age
San Paulo		. Consul	Rrest Consular Age
Victoria		. Consular Agent	CalaisConsul
	Bulgaria		CetteConsular Age
Sofia	**************************************	. Consul-General	Dokor Sanagal Consular Age
	Chile		Calais Consul Cette Consular Age Cherbourg Consular Age Dakar, Senegal Consul Dieppe Consular Age Dijon Consular Age Dunkirk Consular Age Grenoble Consul Guadeloupe, West Indies Consul Havre Consul La Rochelle Consul Limoges Consul Lyon Consul
Antofagasta	Onie	.Consul	DijonConsular Age
Arica		Consular Agent	DunkirkConsular Age
Caldera		. Consular Agent	Guadeloupe West Indies Consul
Coquimbo		. Consular Agent	Havre
Punta Arenas		Consular Agent	La RochelleConsul
Talcahuano		. Consular Agent	LimogesConsul
Valparaiso		. Consul-General	Lyon
	China		Lyon Consul Gene Martinique, West Indies Consul Nantes Consul
Amoy		. Consul	Nantes
Antung		. Consul	NiceConsul
Changsha		. Consul	Nantes Consul Nice Consul Oran, Algeria Consular Age Paris Consul-Gene Rheims Consul Roubaix Consul
Chafu		Concil	Rheims Consul-Gene
Chungking		. Consul	RoubaixConsul
Fuchau		Consul Consul	Rouen
			Saigon, French Indo-ChinaConsul
Mukden		. Consul-General	St. Etlenne
Nankin		. Consul	Salgon, French Into-Chinal St. Etienne. Consul St. Pierre-Miquelon. Consul Tahiti, Society Islands Consul Tamatave, Madagascar. Consul Tunis, Tunis. Consul
Shanghai		. Consul-General	Tamatave, MadagascarConsul
Tientsin		. Consul-General	Tunis, TunisConsul
Tsinan		. Consular Agent	Germany and Dominions
	Colombia		Aix la Chapelle, PrussiaConsul
Barranquilla		. Consul	Apia, Samoa Consul Barmen, Prussia Consul Gene Berlin, Prussia Consul-Gene Brake, Oldenburg Consular Ago
Cartagona		Consular Agent	Berlin, PrussiaConsul-Gene
Medellin		. Consular Agent	Brake, OldenburgConsular Age
Santa Marta		. Consular Agent	BremenConsul
	Costa Rica		Breslau, Prussia
	Costa Rica		Breslau, Prussia. Consular Age Brunswick, Brunswick Consul
	Costa Rica		Bremen Consular Age Bremen Consular Age Breslau, Prussia Consular Age Breslau, Prussia Consular Age Brunswick, Brunswick Consul Cassel, Prussia Consular Age
	Cuba		
Limon	Cuba	. Consul . Consular Agent . Consul	Cassel, Flussia. Consular Age Chemnitz, Saxony. Consul Coburg, Saxe-Coburg-Gotha. Consul-Gene
Limon	Costa Rica Cuba	. Consul . Consular Agent . Consular Agent . Consular Agent	Cassel, Flussia. Consular Age Chemnitz, Saxony. Consul Coburg, Saxe-Coburg-Gotha. Consul-Gene
Limon Puntarenas San José Antilla Baracca	Costa Rica Cuba	. Consular Agent . Consular Agent . Consular Agent . Consular Agent	Cassel, Flussia. Consular Age Chemnitz, Saxony. Consul Coburg, Saxe-Coburg-Gotha. Consul-Gene
Limon Puntarenas San José Antilla Baracca	Costa Rica Cuba	. Consular Agent . Consular Agent . Consular Agent . Consular Agent	Cassel, Flussia. Consular Age Chemnitz, Saxony. Consul Coburg, Saxe-Coburg-Gotha. Consul-Gene
Limon. Puntarenas San José. Antilla. Baracoa. Caibarien Cardenas. Cientuegos.	Costa Rica Cuba	. Consular Agent	Cassel, Flussia. Consular Age Chemnitz, Saxony. Consul Coburg, Saxe-Coburg-Gotha. Consul-Gene
Limon. Puntarenas San José. Antilla Baracoa Caibarien Cardenas Cientuegos	Costa Rica Cuba	. Consular Agent	Cassel, Flussia. Consular Age Chemnitz, Saxony. Consul Coburg, Saxe-Coburg-Gotha. Consul-Gene
Limon. Puntarenas San José. Antilla. Baracoa. Caibarien Cardenas. Cientuegos.	Costa Rica Cuba	. Consular Agent	Cassel, Flussia. Consular Age Chemnitz, Saxony. Consul Coburg, Saxe-Coburg-Gotha. Consul-Gene
Limon. Puntarenas San José. Antilla. Baracoa Caibarien Cardenas Cienfuegos Guantanamo Havana Manzanillo Matanzas Niewa Gerone Isle	Costa Rica Cuba	. Consul Consular Agent Consular Age	Casser, Fussia Consul Age Chemnitz, Saxony Consul Coburg, Saxe-Coburg-Gotha Consul-Gene Cologne, Prussia Consul Cuxhaven Consular Age Danzig, Prussia Consular Gene Dresden, Saxony Consul-Gene Emden, Prussia Consular Age Erfurt, Prussia Consul Frankfort on the Main, Prussia Consul-Gene Gera, Reuss Schleiz Consul-Gene Hamburg Consul-Gene
Limon. Puntarenas San José. Antilla. Baracoa Caibarien Cardenas Cienfuegos Guantanamo Havana Manzanillo Matanzas Niewa Gerone Isle	Costa Rica Cuba	. Consul Consular Agent Consular Age	Casser, Fussia Consul Age Chemnitz, Saxony Consul Coburg, Saxe-Coburg-Gotha Consul-Gene Cologne, Prussia Consul Cuxhaven Consular Age Danzig, Prussia Consular Gene Dresden, Saxony Consul-Gene Emden, Prussia Consular Age Erfurt, Prussia Consul Frankfort on the Main, Prussia Consul-Gene Gera, Reuss Schleiz Consul-Gene Hamburg Consul-Gene
Limon. Puntarenas San José. Antilla. Baracoa Caibarien Cardenas Cienfuegos Guantanamo Havana Manzanillo Matanzas Niewa Gerone Isle	Costa Rica Cuba	. Consul Consular Agent Consular Age	Casser, Fussia Consul Age Chemnitz, Saxony Consul Coburg, Saxe-Coburg-Gotha Consul-Gene Cologne, Prussia Consul Cuxhaven Consular Age Danzig, Prussia Consular Gene Dresden, Saxony Consul-Gene Emden, Prussia Consular Age Erfurt, Prussia Consul Frankfort on the Main, Prussia Consul-Gene Gera, Reuss Schleiz Consul-Gene Hamburg Consul-Gene
Limon. Puntarenas San José. Antilla. Baracoa. Caibarien. Cardenas. Cienfuegos. Guantanamo. Havana. Manzanillo. Matanzas Nueva Gerona, Isle. Nuevitas. Sagua la Grande. Santiago de Cuba.	Cuba Cuba	. Consul . Consular Agent . Consular Consular Agent . Consular Agent . Consular Agent . Consular Agent	Casser, Fussia Consul Age Chemnitz, Saxony Consul Coburg, Saxe-Coburg-Gotha Consul-Gene Cologne, Prussia Consul Cuxhaven Consular Age Danzig, Prussia Consular Gene Dresden, Saxony Consul-Gene Emden, Prussia Consular Age Erfurt, Prussia Consul Frankfort on the Main, Prussia Consul-Gene Gera, Reuss Schleiz Consul-Gene Hamburg Consul-Gene
Limon. Puntarenas San José. Antilla. Baracoa. Caibarien. Cardenas. Cienfuegos. Guantanamo. Havana. Manzanillo. Matanzas. Nueva Gerona, Isle Nuevitas. Sagua la Grande. Santiago de Cuba.	Cuba Cuba of Pines	Consul Consular Agent	Cassel, Flussia. Chemnitz, Saxony. Consul-Gene Cologne, Prussia. Consul-Gene Cologne, Prussia. Consul-Gene Consul-Gene Consul-Gene Consul-Gene Consul-Gene Emden, Prussia. Consul-Gene Emden, Prussia. Consul-Gene Emden, Prussia. Consul-Gene Emden, Prussia. Consul-Gene Con
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Limon. Puntarenas San José. Antilla. Baracoa Caibarien Cardenas Cienfuegos Guantanamo Havana Manzanillo Matanzas Nueva Gerona, Isle Nuevitas Sagua la Grande Santiago de Cuba. Terderiksted, St. Cr. St. Thomas, West In Azua. La Romana Monte Christi Puerto Plata Samana Sanchez San Pedro de Macor Santo Domingo.	Cuba Cuba of Pines nmark and Dominions oix Island adies. Dominican Republic	Consular Agent	Cassel, Fussia. Consul-Gene Cologne, Prussia. Consul-Gene Cologne, Prussia. Consul-Gene Cologne, Prussia. Consul-Gene Consul-G
Limon. Puntarenas San José. Antilla. Baracoa Caibarien Cardenas Cienfuegos Guantanamo Havana Manzanillo Matanzas Nueva Gerona, Isle Nuevitas Sagua la Grande Santiago de Cuba. Terdeniksted, St. Cr. St. Thomas, West In Azua La Romana Monte Christi Puerto Plata Samana Sanchez San Pedro de Macor Santo Domingo.	Cuba Cuba of Pines nmark and Dominions oix Island adies. Dominican Republic	Consular Agent	Cassel, Fussia. Consul-Gene Cologne, Prussia. Consul-Gene Cologne, Prussia. Consul-Gene Cologne, Prussia. Consul-Gene Consul-G
Limon. Puntarenas San José. Antilla. Baracoa Caibarien Cardenas Cieníuegos Guantanamo Havana Manzanillo Matanzas Nueva Gerona, Isle Nuevitas Sagua la Grande Santiago de Cuba. Terderiksted, St. Cr. St. Thomas, West In Azua. La Romana Monte Christi Puerto Plata Samana Sanchez San Pedro de Macor Santo Domingo.	Cuba Cuba of Pines nmark and Dominions oix Island adies. Dominican Republic	Consular Agent	Cassel, Fussia. Consul-Gene Cologne, Prussia. Consul-Gene Cologne, Prussia. Consul-Gene Cologne, Prussia. Consul-Gene Consul-G
Limon. Puntarenas San José. Antilla. Baracoa Caibarien Cardenas Cieníuegos Guantanamo Havana Manzanillo Matanzas Nueva Gerona, Isle Nuevitas Sagua la Grande Santiago de Cuba. Terderiksted, St. Cr. St. Thomas, West In Azua. La Romana Monte Christi Puerto Plata Samana Sanchez San Pedro de Macor Santo Domingo.	Cuba Cuba of Pines nmark and Dominions oix Island adies. Dominican Republic	Consular Agent	Cassel, Flussia. Consul-Gene Cologne, Prussia. Consul-Gene Cologne, Prussia. Consul-Gene Cologne, Prussia. Consul-Gene Consul-Consul Consul-Consul Consul C

Residence Creat Pritain and Demini-	C. 117 P. 1	
Auckland New Zeeland	-Cont'd Rank	Residence Great Britain and Dominions—Cont'd Rank Montego Bay, Jamaica. Consular Agent Montreal, Quebec. Consul-General Nanaimo, B. C. Consular Agent Nassau, N. P., Bahamas Consul Nelson, B. C. Consular Agent Newcastle, N. B. Consular Agent Newcastle, N. S. W., Australia Consul Newcastle, N. S. W., Australia Consul Niagara Falls, Ontario Consul North Bay, Ontario Consular Agent Nottingham, England Consul Nottingham, England Consul Orillia, Ontario Consul Orillia, Ontario Consul Orillia, Ontario Consul Orillia, Ontario Consul Ottawa, Ontario Consul-General
Auckland, New Zealand. Barbados, West Indies. Bay of Islands, (Birchy Cove), Newfoundland. Beebe Junction, Quebec. Belfast, Ireland. Belize, British Honduras. Birmingham, England.	. Consul-General	Montego Bay, JamaicaConsular Agent
Bay of Islands, (Birchy Cove), Newfoundland	Consular Agent	Nanaima P. C. Consul-General
Beebe Junction, Quebec	. Consular Agent	Nassau N P Rohamos Consular Agent
Belfast, Ireland	. Consul	Nelson, B. C. Consular Agent
Belize, British Honduras	. Consul	Newcastle, N. B
Bloomfontoin One or Franchis	. Consul	Newcastle, N. S. W., AustraliaConsul
Bombay India	Consular Agent	Newcastle-on-Tyne, EnglandConsul
Bradford, England	Consul	North Port Ortania
Bridgewater, N. S.	. Consular Agent	Nottingham England Consular Agent
Brighton, Island of Trinidad	. Consular Agent	Orillia, Ontario
Brisbane, Queensland	. Consular Agent	Nottingham, England Consul Orillia, Ontario Consul Orillia, Ontario Consul Orillia, Ontario Consul Paramaribo, Dutch Guiana Consular Agent Paspebiac, Quebec Consular Agent Peterborough, Ontario Consular Agent Peterborough, Ontario Consular Agent Plymouth, England Consul Port Antonio, Jamaica Consul Port Hawkesbury, N. S. Consular Agent Port Maria, Jamaica Consul Port Maria, Jamaica Consul Port Maria, Jamaica Consular Agent Port Maria, Jamaica Consular Agent Port Morant, Jamaica Consular Agent Port Maria, Jamaica Consular Agent Port Morant, Jamaica Consular Agent Prescott, Ontario Consul Prince Rupert, B. C. Consul Quebec, Quebec Consul Quebec, Quebec Consul Queenstown (see Cork). Rangoon, India Consular Agent Riviere du Loup, Quebec Consul Roseau, Dominica, W. I. Consular Agent St. Ann's Bay, Jamaica Consular Agent St. George, Bermuda Consular Agent St. George, Bermuda Consular Agent St. Helens, England Consular Agent St. John, New Brunswick Consul St. Johns, Newfoundland Consul St. Johns, Newfoundland Consul St. Lucia, W. I. Consular Agent St. Stephen, New Brunswick Consul St. Vincent, W. I. Consular Agent St. Stephen, New Brunswick Consul St. Vincent, W. I. Consular Agent Salt Cay, W. I. Consular Agent Santa, Ontario Consul Sarnia, Ontario Consul
Bristol, England	. Consul	Paramaribo, Dutch GuianaConsular Agent
Calautta India	. Consular Agent	Paspebiac, QuebecConsular Agent
Calgary Alberta Canada	Consul-General	Penang, Straits Settlements
Campbellton, New Brunswick	Consul	Plymouth England Consular Agent
Canso, N. S.	. Consular Agent	Port Antonio, Jamaica Consul
Cape Town, Cape of Good Hope	Consul-General	Port Elizabeth, Cape of Good HopeConsul
Cardiff, Wales	. Consul	Port Hawkesbury, N. S Consular Agent
Charlottetown, Prince Edward Island	. Consul	Port Maria, JamaicaConsular Agent
Cockburn Harbor W I	Consular Agent	Port Morant, Jamaica
Colombo Cevion	Consular Agent	Prince Rupert R C
Cork (Oueenstown) Ireland.	. Consul	Ouebec, Ouebec
Cornwall, Ontario.	Consul	Oueenstown (see Cork).
Cumberland, B. C	. Consular Agent	Rangoon, IndiaConsul
Dover, England	. Consular Agent	Redditch, EnglandConsular Agent
Dublin, Ireland	. Consul	Riviere du Loup, QuebecConsul
Dundee, Scotland	Consular Agent	Roseau, Dominica, W. 1 Consular Agent
Dunfermline Scotland	Consul	St. George Bermuda Consular Agent
Durban, Natal	. Consul	St. Helens, England
East London, Cape of Good Hope	Consular Agent	St. John, New Brunswick
Edinburgh, Scotland	Consul	St. Johns, NewfoundlandConsul
Edmonton, Alberta	. Consular Agent	St. Lucia, W. I
Edmunsston, N. B.	Consular Agent	St. Stephen, New Brunswick
Fernie, British Columbia	Consul	St. Vincent, W. I
Fort William and Port Arthur Ontario	Consul	Sandakan British North Borneo Consul
Fredericton N B	Consular Agent	Samia Ontario Consul
Fremantle, W. Australia	Consular Agent	Sault Ste. Marie, Ontario
Galt, Ontario	Consular Agent	Sheffield, EnglandConsul
Galway, Ireland	Consular Agent	Sherbrooke, QuebecConsul
Georgetown, Guiana	Consul	Singapore, Straits SettlementsConsul-General
Gibraltar, Spain	Consul	Stoke on Trent England Consul
Granda West Indies	Consular Agent	Summerside P. E. I
Halifax, Nova Scotia	Consul-General	Swansea, WalesConsul
Hamilton, Bermuda	Consul	Sydney, AustraliaConsul-General
Hamilton, Ontario	Consul	Sydney, Nova ScotiaConsul
Hobart, Tasmania	Consul	Toronto, Ontario
Bay of Islands, (Birchy Cove), Newfoundland. Beebe Junction, Quebec. Belfast, Ireland. Belize, British Honduras. Belize, British Honduras. Blombay, India. Bradford, England. Bloemfontein, Orange Free State. Bombay, India. Bradford, England. Brigdewater, N. S. Brighton, Island of Trinidad. Bristol, England. Bristol, England. Cabano, Quebec. Calcutta, India. Calgary, Alberta, Canada. Campbelliton, New Brunswick. Canso, N. S. Cape Town, Cape of Good Hope. Cardiff, Wales. Charlottetown, Prince Edward Island. Christchurch, N. Z. Cockburn Harbor, W. I. Colombo, Ceylon. Cork (Queenstown) Ireland. Cornwall, Ontario. Cumberland, B. C. Dover, England. Dublin, Ireland. Dunded, N. Z. Donfermline, Scotland. Dundedn, N. Z. Dunfermline, Scotland. Durban, Natal. East London, Cape of Good Hope. Edinburgh, Scotland. Edmunsston, N. B. Fernie, British Columbia. Fort Erie, Ontario. Fort William and Port Arthur, Ontario. Fort William and Port Arthur, Ontario. Fredericton, N. B. Fremantle, W. Australia. Galt, Ontario. Galway, Ireland. Georgetown, Guiana Gibraltar, Spain. Glasgow, Scotland. Hamilton, Germada, West Indies. Halifax, Nova Scotia. Hamilton, Ontario. Hodeida, Turkey. Hongkong, China. Hull, England. Jersey, Channel Islands. Johannesburg, Transvaal Karachi, India. Kenora, Ontario. Kidderminster, England. Letbbridge, Alberta.	Consular Agent	Trenton Ontario Consular Agent
Hongkong, China	Consul-General	Trinidad West Indies
Hull England	Consul	Troop, Scotland
Tersey, Channel Islands	Consular Agent	Turks Island, West IndiesConsul
Johannesburg, Transvaal	Consul	Vancouver, British ColumbiaConsul-General
Karachi, India	Consul	Victoria, British Columbia
Kenora, Ontario	Consular Agent	Victoriaville, Quebec
Kidderminster, England	Consular Agent	West Hartlengol England Consular Agent
Kingston, Jamaica	Consul	Weymouth, England
Leeds England	Consul	White Horse, Yukon TerritoryConsular Agent
Leicester, England	Consular Agent	Windsor, OntarioConsul
Lethbridge, Alberta	Consular Agent	Winnipeg, Manitoba
Limerick, Ireland	Consular Agent	Yarmouth, Nova ScotiaConsul
Liverpool, England	Consular Area	Greece
Liverpool, N. S.	Consul-General	Athens
London, England	Consular Agent	KalamataConsular Agent
Louisburg N. S.	Consular Agent	MityleneConsular Agent
Lunenburg, N. S.	Consular Agent	PatrasConsul
Madras, India	Consul	SalonikiConsul
Malta, Maltese Islands	Consul	Guatamala
Manchester, England	Consular A port	Tivingston Consular Agent
Matthew Town, Bahamas	Consular Agent	New Guatemala
Melbourne, Australia	Consul	Puerto Barrios
Melbourne, Australia Mombasa, British East Africa Moncton, New Brunswick	Consul	St. Vincent, W

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Residence	Haiti	Cairendan Amend	Residence Merico-Coll d'Agent Topia, Durango Consular Agent Torreon, Coahuila Consular Agent Tuxpam, Vera Cruz Consular Agent Vera Cruz, Vera Cruz Consular Agent Vera Cruz, Consular Agent College Consular Consular Agent Consular Cruz, Vera Cruz Consular Consular Agent Consular Cruz Consular Agent Consular Agent Consular Cruz Consular Agent Cruz Consular Agent Consular Agent Cruz Consular Agent
Aux Cayes		Consular Agent	Topia, Durango
Cape Haitien		. Consul	Torreon, Coanulla
Gonaives		. Consular Agent	Tuxpam, Vera CruzConsular Agent
Tacmel		. Consular Agent	Vera Cruz, Vera CruzConsul
feremie		. Consular Agent	Morocco
Petit Goåve		. Consular Agent	Morocco
Port au Prince		Consul	Casa BlancaConsular Agen
Port de Pair		Consular Agent	MogadorConsular Agen
ore de l'aix		· COTTORING 1180	Casa Blanca. Consular Agen Mogador. Consular Agen Tangier. Consul-Genera
	Hunduras		
Amanala		Consular Agent	Netherlands and Dominions
Ronaca		Consular Agent	AmsterdamConsul
a Caiba		Concul	Batavia, JavaConsul
La Celba		Consul	Bonaire, W. I
ruerto Cortes		Cousui	Curação West Indies
Koatan		. Consular Agent	Flushing Netherlands Consular Agen
an Juancito		. Consular Agent	Luxemburg Luxemburg Consular Agen
an Pedro Sula		. Consular Agent	Macagar Calabar Consular Agen
l'egucigalpa		. Consul	D. d. a. Computer Agen
Гela		. Consular Agent	Patter January Consular Agen
			RotterdamConsul-Genera
	Italy	·	Amsterdam Consul Batavia, Java. Bonaire, W. I. Consul Consul Regard Curação, West Indies. Consular Agen Flushing, Netherlands. Consular Agen Luxemburg, Luxemburg Consular Agen Macassar, Celebes. Consular Agen Padang, Sumatra. Consular Agen Rotterdam. Consular Genera Scheveningen, Netherlands. Consular Agen Soerabaya, Java Consular Agen
Bari	, , , , , , , , , , , , , , , , , , ,	. Consular Agent	Soerabaya, JavaConsular Agen
Carrara		. Consular Agent	WY!
Catania		. Consul	Nicaragua
Florence		. Consul	BluefieldsConsul
Canon		Concul-General	Corinto
Leghorn		Consul	MatagalpaConsular Agen
Milan		Consul	San Juan del Sur
Manles		Consul	
Dalaman		Consul	Norway
raterino		. Consul	Bergen
Rome		. Consui	ChristianiaConsul-Genera
Tripoli, Libya		. Consul	Christiansand
Turin		. Consul	Stavanger Consul
Venice		. Consul	Stavanger. Consul Trondhjem. Consular Agen
			Troudingent
	Japan		Panama
Dairen, Manchuria		. Consul	Boca del Toro
Hakodate		. Consular Agent	ColonConsul
Kobé		. Consul	Panama Consul-Genera
Nagasaki		. Consul	Panama
Seoul, Chosen		. Consul-General	· · · · · · · · · · · · · · · · · · ·
Tancui Taiwan		CI	
		. Consul	Paraguay
Yokkaichi		. Consular Agent	Asuncion
Yokkaichi Yokohama		. Consular Agent . Consul-General	Asuncion
Yokkaichi Yokohama		Consular Agent Consul-General	Panama Consul-Genera Santiago Consular Agen Paraguay Asuncion Consul Persia
	Kongo		Tabriz Consul
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Boma	Kongo	.Consul-General	Tabriz. Consul-Genera Consul-Genera
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Boma	Kongo	.Consul-General	Tabriz
Boma Monrovia	Kongo Liberia	. Consul-General	Tabriz. Consul Teheran. Consul-Genera Peru Callao-Lima Consul-Genera Cerro de Pasco Consular Agen
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Residence Belgrade	Servia	Rank . Consul	Residence Vevev	Switzerland—Cont'd	Rank
Bangkok	Siam	. Consul-General	Zurich	• • • • • • • • • • • • • • • • • • • •	Consular Agent Consul-General
	Spain and Dominions		Alexandretta. 1	Turkey and Dominions	Concular Agent
Aimeria		Conculos Amond	Alexandria, Egy	pt.	Concul
Dilipao		Concular Agent	Bagdad		Concul
Coruna		Conquilar Arana	Beirut, Syria		Consul-General
Grand Canary, C	L	. Consular Agent . Consular Agent	Constantinopie.	**************************************	Concul Coneral
Jerez de la Fronti	era	Consul	Dardanelles	**************************************	Concular Agent
Malaga	***************************************	. Consul	Haifa, Syria	*********************	Concular Agent
Palma de Malloro	2 3.	Consular Agent	Jerusalem, Pale	stine.	Consul
Tarragona		. Consular Agent	Port Said, Egyp	t	Consular Agent
Valencia	Islands	. Consul	Smyrna	**********	. Consul-General
¥180,	Sweden	. Consular Agent	Trebizond	****	Consul
Goteborg Malmö	************************	Consular Agent		. Uruguay	· commence angular
Stockholm	***************************************	. Consul-General	Montevideo		. Consul
	Switzerland		Caracas	Venezuela	. Consular Agent
Bern	• • • • • • • • • • • • • • • • • • • •	Consul	Carupano		. Consular Agent
Lucerne	• • • • • • • • • • • • • • • • • • • •	Consular Agent	La Guaira Maracaibo		. Consul . Consul
St. Gall	••••••	Consul	Puerto Cabello.	· · · · · · · · · · · · · · · · · · ·	. Consul

THE VOLUNTEERS OF AMERICA

This society was inaugurated March 9th, 1896, and chartered November 6th, 1896, under the Membership Act of the State of New York. It has military discipline and methods of work, but the government is democratic, and is vested in the Grand but the government is democratic, and is vested in the oland Field Council, composed of the officers of or above the rank of major. This Council elects eleven directors, who are the re-sponsible financial officers, and who act as trustees and cus-todians of the properties. The commander in chief or general is elected by the members for a term of five years. The officials

is elected by the members for a term of five years. The officials forming his cabinet are the vice-president, secretary, treasurer, and the regimental officers. In doctrine the Volunteers are in harmony with the evangelical churches in all essential points. Pusts have been formed in almost all parts of the United States, and have become auxiliary to the churches.

The chief departments of work of the Volunteers are the evangelical, the helping hand, the prison work, the homes, hospital and sanatorium work. They aim to give temporary assistance in time of need. They seek to reach men and women whose misfortunes or misdeeds have placed them beyond the pale of good society. Homes are established and maintained for them, and every effort is made to bring them back to lives of virtue and sobriety.

The prison work, now carried on in over fifty prisons, is under

of virtue and sobriety.

The prison work, now carried on in over fifty prisons, is under the direct supervision of Mrs. Ballington Booth. Meetings are held in prison chapels, always in co-operation with the chaplain, and prisoners—on signing certain declarations—may be enrolled in the Volunteer Prison League. On being discharged, the ex-prisoner is provided by the chaplain with a letter of introduction to the Volunteer Headquarters in New York or elsewhere. This letter serves as a pass to a home for discharged prisoners. About 10,000 men have passed through these "Hope Halls." When worthy men prove physically fit, positions are obtained for them, and the Volunteers keep in touch with them for many months and years thereafter. A considerable portion of the income for maintenance of the prison work comes from those who have been its beneficiaries. Organized effort is carried on to assist the families of prisoners, and at Christmas boxes of clothing, groceries and toys are sent

to them. A home is maintained at Gwynedd, Pennsylvania, for the children of prisoners.

Industrial homes are maintained, to tide men over until they can secure paying positions. The Volunteers also provide homes where girls who have no homes in the city can obtain good board and lodging, with the liberty and comfort of home, for a nominal sum. There are also homes for poor children. In summer, fresh air camps are carried on, where mothers of city children are taken for ten days or two weeks. Approximately 40,000 children and their mothers are given outings every summer. Hospital and sanatorium work is a prominent part of the activities of the society. In the New York dispensary alone nearly 42,000 cases are treated in a year. A fully equipped hospital is located at Beekman and Water Streets, New York. Manual training schools, physical culture classes for girls and boys, and sewing schools for girls, are maintained in connection with some of the posts, the garments made by the sewing classes being distributed to the poor. The Volunteers also conduct employment bureaus, reading rooms, wood yards, co-operative stores, and they create additional agencies of relief as emergencies arise, for example, providing ice to the poor in summer, and coal in winter. At Christmas and Thanksgiving thousands of dinners are sent out. During a year about \$500,000 lodgings and \$500,000 meals are furnished at Volunteer stations and thousands of garments given to the needy. General and Mrs. Ballington Booth are presidents of the society. The headquarters are at 34 West 28th Street, New York.

THE SALVATION ARMY

This is a missionary organization, founded on military principles in England, July 5th, 1865, by General William Booth. The founder died August 20th, 1912, and was succeeded by his son, General William Bramwell Booth. In New York City the national headquarters are at 20 West 14th Street. The society is incorporated in several states. Its work is similar to that carried on by the Volunteers of America.

THE UNITED STATES ARMY

DEPARTMENTS, DIVISIONS AND BRIGADES (Oct. 20, 1916)

The Eastern Department.—Embracing the New England States, New York, New Jersey, Pennsylvania, Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Kentucky, Tennessee, Georgia, Florida, Alabama, Mississippi, the post of Fort Logan H. Roots, Ark., the Coast Defenses of New Orleans and Galveston, the Panama Canal Zone, and the island of Porto Rico, with the islands and keys adjacent thereto; headquarters at Governors Island, N. Y. Commander, MAJ.-GEN. Leonard Wood.

First Division, headquarters, Governors Island, N. Y. Commander, MAJ.-GEN. Leonard Wood.

North Atlantic Coast Artillery District.—The Coast Defenses of Portland, Portsmouth, Boston, New Bedford, Narragansett Bay, Long Island Sound, Eastern New York, Southern New York and Sandy Hook; headquarters, Fort Totten, N. Y. Commander, Brig.-Gen. Harry F. Hodges.

N. Y.

Commander, Brig.-Gen. Harry F. Hodges.
South Atlantic Coast Artillery District.—The Coast Defenses of the Delaware, Baltimore, Potomac, Chesapeake Bay, Cape Fear, Charleston, Savannah, Tampa, Key West, Pensacola, Mobile, New Orleans, and Galveston. Head-quarters, Charleston, S. C.

Commander, Col. Stephen M. Foote, Coast Art.

The Central Department.—Embracing the States of Ohio, Michigan, Indiana, Illinois, Wisconsin, Minnesota, North Dakota, South Dakota, Iowa, Missouri, Kansas, Nebraska, Wyoming (except that part included in the Yellowstone Park), Colorado, and the post of Fort Missoula, Mont.; headquarters at Chicago, Ill.

Commander, MAJ.-Gen. Thomas H. Barry.

Third Cavalry brigade, headquarters, Fort Riley, Kan.: Commander,

Commander,
Fourth brigade, headquarters, Chicago, III.
Commander, Brig.-Gen. Edward H. Plummer.
The Southern Department.—Embracing the States of
Texas (except the Coast Defenses of Galveston), Louisiana
(except the Coast Defenses of New Orleans), Arkansas
(except the post of Fort Logan H. Roots), Oklahoma, New
Mexico, and Arizona, headquarters, Fort Sam Houston,
Tex

Mexico, and Arizona, headquarters, Fort Sam Houston, Tex.
Commander, Maj.-Gen. Frederick Funston.
Cavalry Division, headquarters, San Antonio, Tex.
Commander, Maj.-Gen. Frederick Funston.
First Cavalry Brigade, headquarters, Fort Sam Houston, Tex.:
Commander, Brig.-Gen. James Parker.
Second Cavalry Brigade, headquarters, Columbus, N. Mex.:
Commander, Brig.-Gen. James Parker.
First Brigade, headquarters, Eagle Pass, Tex.
Commander, Brig.-Gen. Henry A. Greene.
Second Brigade, headquarters, Laredo, Tex.
Commander, Brig.-Gen. William A. Mann.
Fifth Brigade, headquarters, Douglas, Ariz.
Commander, Brig.-Gen. George Bell, Jr.
Sixth Brigade, headquarters, Douglas, Ariz.
Commander, Brig.-Gen. Thomas F. Davis.
Seventh Brigade, headquarters, Douglas, Ariz.
Commander, Brig.-Gen. Charles G. Morton.
Eighth Brigade, headquarters, Columbus, N. Mex.
Commander, Brig.-Gen. Charles G. Morton.
Eighth Brigade, headquarters, Columbus, N. Mex.
Commander, Maj.-Gen. John J. Pershing.
The Philippine Department.—Embracing all the islands of the Philippine Archipelago. This department is subdivided territorially into the District of Luzon, comprising the islands here-tofore included in the Department of Luzon, and the District of Mindanao, comprising the islands here-tofore included in the Department of Mindanao, head-quarters at Manila, P. I.
Commander, Brig.-Gen. Hunter Liggett.

tofore included in the Department of Mindanao, head-quarters at Manila, P. I.

Commander, Bric.-Gen. Hunter Liggett.

The Western Department.—Embracing the States of Washington, Oregon, Idaho, Montana (except the post of Fort Missoula), so much of Wyoming as includes Yellow-stone Park, California, Nevada, Utah, and Alaska, head-quarters at San Francisco, Cal.

Commander, MAJ.-Gen. J. Franklin Bell.

Third Division, headquarters, San Francisco, Cal.

Commander, MAJ.-Gen. J. Franklin Bell.

Pacific Coast Artillery District: The Coast Defenses of San Diego, Los Angeles, San Francisco, Puget Sound and Columbia, Headquarters, Fort Miley, Cal. Commander, Brig.-Gen. Wm. L. Sibert. The Hawailan Department.—Embracing the Hawaiian Islands and their dependencies; headquarters, Honolulu,

Hawaii.

Commander, Brig.-Gen. Robt. K. Evans.
First Hawaiian Brigade: Headquarters, Schofield Bks, Hawaii.
Commander, Brig.-Gen. Frederick S. Strong.

AUTHORIZED STRENGTH OF THE ARMY

Commissioned Enlisted

	officers	
General officers		
General Staff Corps	38	
Adjutant-General's Department	28	
Inspector-General's Department		
Judge Advocate General's Department	17	
Quartermaster's Department	282	8,000
Medical Department	(~)1 020	(b)
Corps of Engineers	302	2,198
Ordnance Department	96	1,241
Signal Corps		3,369
Bureau of Insular Affairs	3	
Fifteen regiments of cavalry	877	17,357
Six regiments of field artillery		7,881
Coast Artillery Corps		21,423
Thirty regiments of infantry	1.890	49,876
Porto Rico Regiments of Infantry		1,348
Military Academy		., 684
Detached officers		
Additional officers		
Recruiting parties, recruit depots, and u		
assigned recruits		11.539
Service school detachments		752
United States Military Prison Guards		468
With disciplinary organizations		101
Mounted orderlies		29
Mounted orderlies Sergeants for duty with National Guard		209
Indian scouts		75
Total Regular Army		
Additional force:	,	,
Philippine scouts	182	5.733
Grand Total	7.323	132,283
COMMERCIONED OFFICERS — Are suther		

Major-Generals, 11; Brigadier-Generals, 30; Colonels, 245; Lieutenant-Colonels, 230; Majors, 658; Captains, 2,009; 1st Lieutenants, 2,600; 2nd Lieutenants, 1,369; Chaplains, 85. (a) Includes 363 first lieutenants of the Medical Reserve Corps

(a) Includes 305 hrst licutenants of the Medical Reserve Corps on active duty, and 60 dental surgeons.

(b) Under the act of Congress approved March 1, 1887 (24 Stat. L. 435), the enlisted men of the Medical Department (Hospital Corps) are not to be counted as part of the strength of the Army. The authorized strength of the Hospital Corps is 6,614 enlisted men.

ACTUAL STRENGTH OF THE ARMY

(April, 1916) General officers	Enlisted
Of	licers men
General officers	24
Staff Corps and Departments	1,012 2.590
Staff Corps and Departments. Engineers.	231 1.851
Cavalry	794. 14 258
Field Artillery	264 5 561
Coast Artillery	745 18 616
Infantry	1 631 34 620
West Point detachments.	1,00104,020
Indian Scouts.	018
Casuals and Recruits at depots and en route	606
Total	4.700
Total	4,72984,213
Philippine scouts.	182 5,604
Hospital Corps.	3,972
Quartermaster Corps	4,640
Quartermaster Corps. Grand Total.	4,91198,429

GENERAL OFFICERS AND OFFICERS OF STAFF CORPS AND DEPARTMENTS

General Officers

MAJOR-GENERALS Hugh L. Scott Frederick Funston Tasker H. Bliss Leonard Wood J. Franklin Bell George W. Goethals . Thomas H. Barry

John J. Pershing BRIGADIER GENERALS*

Thomas F. Davis
William A. Mann
Harry F. Hodges
William L. Sibert
Robert K. Evans
Clarence R. Edwards
James Parker
Hunter Liggett
Charles J. Bailey
George Bell, Jr.
Henry A. Greene Henry A. Greene

GENERALS *
Frederick S. Strong
John F. Morrison
Edward H. Plummer
Clarence P. Townsley
Charles G. Morton
John W. Ruckman
Edwin St. J. Greble
Eben Swift
Charles G. Treat
Francis H. French

General Staff Corps Mai.-Gen. Hugh L. Scott, chief of staff.

MAJOR-GENERALS Erasmus M. Weaver, chief of coast artillery.

Tasker H. Bliss COLONELS

Chas. W. Kennedy, infantry.
George T. Bartlett, coast artillery.
P. D. Lochridge, cavalry.
Malvern Hill Barnum, cavalry.
Robt. E. L. Michie, cavalry.
Ernest Hinds, field artillery.
Wm. H. Johnston, infantry.
William F. Martin, infantry.
George B. Duncan, infantry.

LIEUTENANT-COLONELS

Frank W. Coe, coast artillery. Robert L. Howze, cavalry.

Munroe McFarland, infantry. William S. Graves, infantry. Robert E. Callan, coast artillery.

MAJORS
Andrew Moses, coast artillery.
George A. Nugent, coast artillery.
Palmer E. Pierce, infantry.
Ralph H. Van Deman, infantry.
John McA. Palmer, infantry.
Douglas MacArthur, engineers.
Oliver Edwards, infantry.
Dan T. Moore, 5th field infantry.
Dennis E. Nolan, 30th infantry.
Frank S. Cocheu, infantry.
Walter C. Babcock, cavalry.
Briant H. Wells, infantry.
Francis Lef. Parker, cavalry.
Monroe C. Kerth, infantry.
Charles E. Kilbourne, coast artillery.
John J. Kingman, engineers.

CAPTAINS Tenny Ross, infantry. Harry N. Cootes, cavalry. William H. Raymond, coast artillery.

Departments at Washington-Brigadier-Generals

Henry P. McCain, adjutant-general.
Ernest A. Garlington, inspector-general.
Enoch H. Crowder, judge-advocate general.
Henry G. Sharpe (major-general), quartermaster-general.
Abiel L. Smith, quartermaster corps.
Carroll A. Devol, quartermaster corps.
Carroll A. Devol, quartermaster corps.
Wm. C. Gorgas (major-general) surgeon-general.
William M. Black, chief of engineers.
Wm. Crozier, chief of ordnance.
George P. Scriven, chief signal officer.
Frank McIntyre, chief bureau insular affairs.

* For detail of service see Division and Departments of the Army.

UNITED STATES MILITARY ACADEMY AT WEST POINT

failure of the principal to pass the prescribed preliminary examinations.

CANDIDATES.—Appointees to the Military Academy must be between seventeen and twenty-two years of age, free from any infirmity which may render them unfit for military service, and able to pass a careful examination in English grammar, English composition, English literature, algebra through quadratic equations, plane geometry, descriptive geography and the elements of physical geography, especially the geography and the elements of physical geography, especially the geography and the elements of physical geography, especially the geography and the elements of physical geography, especially the geography and the United States, United States history, the outlines of general history. The Secretary of War is authorized to permit not exceeding four Filipinos, to be designated, one for each class, by the Philippine Commission, to receive instruction at the United States Military Academy at West Point; Provided, That the Filipinos undergoing instruction, shall be eligible only to commissions in the Philippine Scouts, serving for 8 years, unless sooner discharged.

COURSE OF INSTRUCTION.—The course of instruction, which is quite thorough, requires four years, and is largely mathe-

APPOINTMENTS, How Made.—Each Senator, Congressional District, and Territory—also the District of Columbia, Porto Rico, Alaska, and Hawaii—is entitled to have one cadet at the Academy. There are also forty appointments at large, specially conferred by the President of the United States. The law, however, provides that for six years, from July 1, 1910, whenever any cadet shall have finished three years of his course at the Academy his successor may be admitted.

Date of Appointments—Appointments are usually made one year in advance of date of admission, by the Secretary of War, upon the nomination of the Senator or Representative. These nominations may either be made after competitive examination or given direct, at the option of the Representative. The Representative may nominate two legally qualified second candidates, to be designated alternates. The alternates will receive from the War Department a letter of appointment, and will be examined with the regular appointee, and the better qualified will be admitted to the Academy in the event of the failure of the principal to pass the prescribed preliminary examinations.

CANDIDATES.—Appointees to the Military Academy must be between seventeen and twenty-two years of age, free from any infirmity which may render them unfit for military service, and able to pass a careful examination in English grammar, English composition, English literature, algebra through quadratic equations, plane geometry, descriptive geography, and the elements of physical geography, especially the geography of the United States, United States history, the outlines of general history. The Secretary of War is authorized to permit not exceeding four Filipinos, to be designated, one for each class, but the Philippine Commission, to receive instruction at the case in the principal to pass the principal to pass the prescribed preliminary examination.

RANKO FARADINATES.—Appointees to the Military Academy must be between seventeen and twenty-two years of age, free from any infirmity which may ren

Corps.

HISTORY OF WEST POINT:—The Academy was formally opened on July 4, 1802, with ten cadets and five officers as instructors. Its success is said to be due to the administrative ability of Gen. Sylvanus Thayer, who became its superintendent in 1817 and served as such for sixteen years. This officer is known as the Father of West Point. Since the opening of the Academy, including the class of 1911, more than five thousand officers have been graduated. An act of Congress suthorizing the expenditure of \$5,800,000 for the reconstruction of the United States Military Academy was passed in June, 1902, and at a later session of Congress \$1,700,000 additional was allowed.

UNITED STATES ARMY POSTS AND FORTS

Adams, Ft., R. I. (Eastern Dept.)—P. O., R. R. and tel. stn. Newport, R. I., dist. 3 m.

Andrews, Ft., Mass. (Eastern Dept.)-P. O. same; tel. and

Andrews, Ft., Mass. (Eastern Dept.)—P. O. same; tel. and R. R. stn. Boston, Mass., dist. 9 m. Apache, Ft., Ariz. (Southern Dept.)—P. O. and tel. stn. same; stage daily from Holbrook on S. F. P. R. R., dist. 90 m. Armistead, Ft., Md. (subpost of Ft. Howard)... (Eastern Dept.)—P. O., tel. and R. R. stn. Baltimore, Md., dist. 8 m. Armstrong, Ft., H. T. (subpost of Ft. Ruger). (Hawaiian Dept.)—P. O. and tel. stn. Honolulu, H. T. Army and Navy General Hospital, Ark.—P. O., tel. and R. R. str. Hat Springe Ark

stn. Hot Springs, Ark

Augusta Arsenal, Ga.—P. O., tel. and R. R. stn. Augusta, Ga., dist. 3 m.; electric railway from Augusta to arsenal. Baker, Ft., Cal. (Western Dept.)—P. O. and R. R. stn. Sausalito, Cal., dist. 4 m.; tel. stn. at post; ferry boat from San

Banks, Ft., Mass. (Eastern Dept.)—P. O. Winthrop Branch, Boston, Mass.; R. R. stn., Winthrop, Mass., dist. 2 m.; tel. stn. Boston, Mass.

stn. Boston, Mass.
Barrancas, Ft., Fla. (Eastern Dept.)—P. O. and tel. stn. same; R. R. stn. Pensacola, Fla., dist. 8 m.; electric line to post. Barry, Ft., Cal. (Western Dept.)—P. O. same; R. R. stn. Sausalito, Cal., dist. 7 m.; tel. stn. Ft. Baker, Cal.
Bayard, Ft., General Hospital, N. Mex.—P. O. and tel. stn. same; R. R. stn. Bayard, N. Mex., dist. 2 m.
Benicia Arsenal, Cal.—P. O., tel. stn. and boat landing, Benicia, Cal.; R. R. stn. Army Point, Cal.
Benjamin Harrison, Ft., Ind. (Central Dept.)—P. O. Indianapolis, Ind.; interurban trolley from Indianapolis, dist. 10 m.; tel. stn. at post.

tel. stn. at post.

tel. stn. at post.

Bliss, Ft., Tex. (Southern Dept.)—P. O. tel. and R. R. stn. same; electric line to El Paso, Tex., for passengers only, 5 m.

Boise Barracks, Idaho. (Western Dept.)—P. O., tel. and R. R. stn. Boise, Idaho, dist. 2 m.

Brady, Ft., Mich. (Central Dept.)—P. O., tel. and R. R. stn. Sault Ste. Marie, Mich., dist. 1 m.

Brownsville, Tex. (Southern Dept.)

Calexico, Cal. (Western Dept.)

Camp Ft. Bliss, Tex. (Southern Dept.)—P. O. same.

Canby, Ft., Wash. (subpost of Ft. Stevens, Oreg.) (Western Dept.)—P. O. Ilwaco, Wash.; tel. and R. R. stn. Ft. Stevens, Oreg. dist. 10 m.

Oreg., dist. 10 m

Oreg., dist. 10 m.
Carroll, Ft., Md. (subpost of Ft. Howard). (Eastern Dept.)—
P. O., tel. and R. R., stn. Baltimore, Md., dist. 8 m.
Casey, Ft., Wash. (Western Dept.)—P. O. same; tel. stn. Port
Townsend, Wash.; R. R., stn. Seattle, Wash., dist. 53 m.
Caswell, Ft., N. C. (Eastern Dept.)—P. O. and R. R. stn.,
Southport, N. C.; tel. stn. Wilmington, N. C.; Government
and commercial boat to post.
Cayey, Porto Rico.—See Henry Barracks.
Clark, Ft., Tex. (Southern Dept.)—P. O. Brackettville, Tex.,
tel. stn. at post; R. R. stn. Spofford Junction, Tex., dist. 10 m.
Columbia, Ft., Wash. (Western Dept.)—P. O. same, express
office, Chinook, Wash.; tel. and R. R. stn. Ft. Steveus, Oreg.,
dist. 4 m.; Government steamer to post.

office, Chinook, Wash.; tel. and R. R. stn. Pt. Stevens, Oreg., dist. 4 m.; Government steamer to post.
Columbus Barracks, Columbus, Ohio.—P. O. and tel. stn. same; R. R. stn. Columbus, Ohio, dist. 1 m.
Columbus, N. Mex. (Southern Dept.).—P. O. New Castle, N. H.; tel. and R. R. stn. Portsmouth, N. H.; stage or steamer from Portsmouth, dist. 3 m.
Cristobal C. Z. (Eastern Dept.)—P. O. tel. and R. R. stn.

Cristobal, C. Z. (Eastern Dept.)-P. O., tel. and R. R. stn. same.

Crockett, Ft., Tex. (Eastern Dept.)—P. O., tel. and R. R. stn. Galveston, Tex.

Crook, Ft., Nebr. (Central Dept.)-P. O., tel. and R. R. stn. same

Dade, Ft., Fla. (Eastern Dept.)—P. O. same; tel. stn. Palmetto, Fla.; R. R. stn. Tampa, Fla., dist. 35 m.; Government steamer to post

D. A. Russell, Ft., Wyo. (Central Dept.)-P. O., tel. and R. R. stn. same.

stn. same.
Davis, Ft., Alaska. (Western Dept.)—P. O. Nome, Alaska.
De Russy, Ft., H. T. (subpost of Ft. Ruger). (Hawaiian Dept.)—P. O. and tel. stn. Honolulu, H. T., dist. 4 m.
Des Moines, Ft., Iowa (Central Dept.)—P. O. and tel. stn. same; R. R. stn. Des Moines, Iowa, dist. 5 m.; city line to post.
De Soto, Ft., Fla. (subpost of Fort Dade), (Eastern Dept.)—P. O. same; R. R. stn. Tampa, Fla., dist. 34 m.; tel. stn. Pal-

metto. Fla., daily boat (except Sunday) from Tampa Government steamer to post.

Douglas, Ariz, (Southern Dept.)—P. O. tel. and R. R. stn.

Same.

Douglas, Ft., Utah (Western Dept.)—P. O. Ft. Douglas Stn., Salt Lake City, Utah; tel. stn. at post; R. R. stn. Salt Lake City, Utah, dist. 4 m.; city railway to post.

Du Pont, Ft., Del. (Eastern Dept.)—P. O., tel. and R. R. stn., Delaware City, Del., dist. 2 m.

Eagle Pass, Tex. (Southern Dept.).

El Researche (Southern Dept.).

El Paso, Tex. (Southern Dept.).
El Paso, Tex. (Southern Dept.).
Empire, Canal Zone (Eastern Dept.)—P. O. and tel. stn. same, 33 miles from Colon.
Ethan Allen, Ft. Vt. (Eastern Dept.)—P. O., tel. and R. R.

stn. same. Flagler, Ft., Wash. (Western Dept.)—P. O. same tel. stn. Port Townsend, Wash., dist. 5 m.; R. R. stn. Seattle, Wash.,

dist. 53 m.

dist. 53 m.

Foster, Ft., Me. (subpost of Ft. Constitution, N. H.), (Eastern Dept.)—P. O. Kittery, Me.; tel. and R. R. stn. Portsmouth N. H., dist. 6 m.

Frankford Arsenal, Pa.—P. O. Bridesburg, Philadelphia, Pa.; tel. stn. at post; R. R. stn. Bridesburg, Pa., dist. ½ m.

Gaillard, Camp. C. Z. (Eastern Dept.)—P. O. and tel. stn. Culebra, 35 miles from Colon.

Gaines, Ft., Ala. (subpost of Ft. Morgan), (Eastern Dept.)—P. O. Dauphin Island, Ala.; tel. and R. R. stn. Mobile, Ala., dist. 30 m. Covernment streams to nost. dist. 30 m.; Government steamer to post.

Galveston, Tex.
Gatun, C. Z. (Eastern Dept.)—P. O. and tel. stn. same, 9
miles from Colon.

Western Dept.)—P. O. and R. R.

George Wright, Ft., Wash. (Western Dept.)—P. O. and R. R. stn. Spokane, Wash., dist. 4 m.; tel. stn. at post. Getty, Ft., R. I. (subpost of Ft. Greble), (Eastern Dept.)—P. O. Ft. Greble, R. I.; tel. and R. R. stn. Newport, R. I., dist.

Gibbon, Ft., Alaska (Western Dept.)-P. O. Tanana, Alaska; tel. stn. at post

Grant, Ft., C. Z. (Eastern Dept.)—P. O. tel. and R. R. stn. Balboa, 3 m.
Greble, Ft., R. I. (Eastern Dept.)—P. O. same; tel. and R. R.

Greble, Ft., R. I. (Eastern Dept.)—P. O. same; tel. and R. R. stn. Newport, R. I., dist. 5 m.; electric railway from Saunderstown, R. I., dist. 15 m.; electric railway from Saunderstown, R. I., dist. 17 m.; contract ferry service to post. Hamilton, Ft., N. Y. (Eastern Dept.)—P. O. Ft. Hamilton, Stn.; Brooklyn, N. Y.; tel. stn. Ft. Hamilton, Brooklyn, N. Y.; city railway from Brooklyn, dist. 7 m. Hancock, Ft., N. J. (Eastern Dept.)—P. O. same; tel. stn. Sandy Hook, N. J., and R. R. stn. Highlands, N. J., dist. 6 m.; Government railway to post. Harlingen, Tex. (Southern Dept.). Heath, Ft., Mass. (subpost of Ft. Banks), (Eastern Dept.)—P. O. Winthrop Branch, Boston, Mass.; tel. stn. Beachmont, Mass.; R. R. stn. Highlands, Mass., dist. 3/4 m. Henry Barracks, Porto Rico (Eastern Dept.)—P. O. and tel. stn. Cayey, P. R.

Stn. Cayey, P. R.
H. G. Wright, Ft., N. Y. (Eastern Dept.)—P. O. and R. R.
stn. New London, Conn., dist. 8 m.; tel. stn. at post; Government steamer to post.

Honolulu, Hawaii (Hawaiian Dept.)-P. O. and tel. stn.

Howard, Ft., Md. (Eastern Dept.)-P. O. same; tel. and R. R. stn. Baltimore, Md., dist. 17 m.; Government steamer to

Huachuca, Ft., Ariz. (Southern Dept.)-P. O., tel. and R. R.

Hunt, Ft., Va. (Eastern Dept.)—P. O. and tel. stn. same; electric R. R. stn. Hunter, Va., dist. 1 m., freight sta., Washington, D. C.; steamboat from Washington, D. C., dist. 15 m.

Jackson Barracks, La. (Eastern Dept.)—P. O., tel. and R. R.

stn. New Orleans, La., dist. 6 m.; street cars from New Orleans

pass the post.

Jay, Ft., N. Y. (Eastern Dept.)—P. O. New York, N. Y.; tel.

stn. Governors Island New York City; Government steamer

Jefferson Barracks, Mo.—P. O. tel. and R. R. stn. same. Kamehameha, Ft., H. T. (Hawaiian Dept.)—P. O. and tel. stn. Honolulu, H. T. Key West Barracks, Fla. (Eastern Dept.)—P. O., tel. and R. R. stn. same

Laredo, Tex. (Southern Dept.),

UNITED STATES ARMY POSTS AND FORTS-Cont'd

Lawton, Ft., Wash. (Western Dept.)-P. O. and tel. stn. Seattle, Wash., dist. 6 m.; R. R. stn. Interbay, Wash., dist.

Leavenworth, Ft., Kans. (Central Dept.)-P. O., tel. and R. R. stn. same.

Leavenworth, Ft., Army Service Schools, Kans.—P. O., tel. and R. R. stn. Ft. Leavenworth, Kans.

Levett, Ft., Me. (subpost of Ft. Williams) (Eastern Dept.)—P. O., tel. and R. R. stn. Portland, Me.; dist. 4 m.; government

P. O., fel. and R. R. stn. Portland, Me.; dist. 4 m.; government steamer to post.

Lincoln, Ft., N. Dak. (Central Dept.)—P. O., tel. and R. R. stn. Bismarck, N. Dak., dist. 4 m.

Liscum, Ft., Alaska (Western Dept.)—P, O. and tel. stn. same; steamer from Port Valdez, dist. 3 m.

Logan, Ft., Colo.—P. O. tel. and R. R. stn. same.

Logan H. Roots, Ft., Ark. (Eastern Dept.)—P. O. Argenta, Ark.; tel. and R. R. stn. Little Rock, Ark., dist. 4 m.

Lyon, Ft., Me. (subpost of Ft. McKinley) (Eastern Dept.)—P. O., tel. and R. R. stn. Portland Me., dist. 4 m.; government steamer to post.

steamer to post.

McDowell, Ft., Cal.—P. O. and tel. stn. Angel Island, Cal.;
R. R. stn. San Francisco, Cal., dist. 7 m.; government steamer

R. R. stn. San Francisco, Cal., dist. 7 m.; government steamer to post.

McIntosh, Ft., Tex. (Southern Dept.)—P. O., tel. and R. R. stn. Laredo, Tex., dist. 1 m.

Mackenzie, Ft., Wyo. (Central Dept.)—P. O., tel. stn. and R. R. stn. Sheridan, Wyo.; dist. 3 m.

McKinley, Ft., Me. (Eastern Dept.)—P. O., tel. and R. R. stn. Portland, Me.; dist. 5 m.

McPherson, Ft., Ga. (Eastern Dept.)—P. O. and R. R. stn. same; tel. stn. Atlanta, Ga.; electric line from Atlanta, Ga.; dist. 4 m.

McRee, Ft. Fla (subpost of Ft. Barrances) (Fastern Dept.)

McRee, Ft., Fla. (subpost of Ft. Barrancas) (Eastern Dept.)—P. O. and tel. stn. Ft. Barrancas, Fla., R. R. stn. Pensacola, Fla., dist. 10 m.; electric line between Pensacola, Fla., and Ft. Bar-

Madison Barracks, N. Y. (Eastern Dept.)—P. O. and R. R. stn. Sacket Harbor, N. Y.; tel. stn. at post.

Mansfield, Ft., R. I. (subpost of Ft. H. G. Wright) (Eastern Dept.)—P. O. Watch Hill, R. I.; tel. and R. R. stn. Westerly, R. I., dist. 7 m.

Mason, Ft., Cal. (Western Dept.)—P. O. and R. R. stn. San Francisco, Cal.; dist. 3 m.; street cars ¼ m. from post; tel. stn.

At post.

Meade, Ft., S. Dak. (Central Dept.)—P. O. and tel. stn. same; R. R. stn. Sturgis, S. Dak., dist. 2 m.

Michie, Ft., N. Y. (subpost of Ft. Terry, N. Y.) (Eastern Dept.)—P. O., tel. and R. R. stn. New London, Conn., dist. If m.; government steamer to post.

Miley, Ft., Cal. (Western Dept.) (subpost of Ft. Winfield Scott)—P. O. and R. R. stn. San Francisco, Cal., dist. 6 m.;

tell stn. at post.

Missoula, Ft., Mont. (Central Dept.)—P. O. and R. R. stn. (N. P.) Missoula, Mont.; electric street railway to post, dist. 4 m.; tel. stn. at post.

Monroe, Ft., Va. (Eastern Dept.)—P. O., tel. and R. R. stn.

Morgan, Ft., Ala. (Eastern Dept.)—P. O. and tel. stn. same; R. R. stn. Mobile, Ala.; steamer from Mobile, dist. 30 m. Mott, Ft., N. J. (Eastern Dept.)—P. O., tel. and R. R. stn. Salem, N. J., dist. 6 m. Moultrie, Pt., S. C. (Eastern Dept.)—P. O. Moultrieville, S. C.; tel. and R. R. stn. Charleston, S. C., dist. 6 m.; govern-

ment steamer to post.

Myer, Ft., Va. (Eastern Dept.)—P. O. and tel. stn. same;
R. R. stn. Washington, D. C., dist. 4 m.; electric railway to post. Naco, Ariz.

Niagara, Ft., N. Y. (Eastern Dept.)—P. O. Youngstown, N. Y.; R. R. stn. Lewiston, N. Y., dist. 7 m.; electric road to

N. Y., R. R. stn. Lewiston, N. Y., dist. 7 m.; electric road to post; tel. stn. at post.
Nogales, Ariz. (Southern Dept.).
Oglethorpe, Ft., Ga. (Eastern Dept.)—P. O. Dodge, Ga.; tel. stn. at post; R. R. stn. at post for freight and parties of 50 or more passengers, or for less number under special arrangement; R. R. stn. for other passengers, Chattanooga, Tenn., iist. 11 m. Electric railway Chattanooga to post.
Omaha, Ft., Nebr., (Central Dept.)—P. O. and R. R. stn. Ontario, Ft., N. Y. (Eastern Dept.)—P. O. tel. and R. R. stn. Cswego, N. Y.
Otis, Camp, E. S. Canal Zone (Eastern Dept.)—P. O. and tel. stn. Las Cascadas.

Philip Kearny, Ft. R. I. (subpost of Ft. Greble) (Eastern Dept.)—P. O. Ft. Greble, R. I.; tel. and R. R. stn. Newport, R. I., dist., 7 m.; electric railway from Saunderstown, R. I., dist. 1 m.

Philippine Islands—All mail for troops in, should be addressed Manila, P. I.
Pickens, Ft., Fla. (subpost of Ft. Barrancas) (Eastern Dept.)
—P. O. and tel. stn. Ft. Barrancas, Fla.; R. R. stn. Pensacola, Fla., dist. 9 m.; electric railway between Pensacola, Fla., and Ft. Barrancas.

Fila., dist. 9 m.; electric haway between Pensacota, 18 m. and Ft. Barrancas.

Plattsburg Barracks, N. Y. (Eastern Dept.)—P. O., tel. and R. R. stn. Plattsburg, N. Y.

Porter, Ft., N. Y. (Eastern Dept.)—P. O., tel. and R. R. stn.

Buffalo, N. Y., dist. 3 m.

Preble, Ft., Me. (subpost of Ft. Williams) (Eastern Dept.)—P. O., tel. and R. R. stn. Portland, Me., dist. 3 m.

Presidio of Monterey, Cal. (Western Dept.)—P. O. and tel. stn. same; R. R. stn. Monterey, Cal.; dist. 2 m.

Presidio of San Francisco, Cal. (Western Dept.)—P. O. Presidio of San Francisco, Cal.; tel. stn. at post; R. R. stn., San Francisco, Cal., dist. 5 m.; city railway to post.

Presidio of San Francisco, Letterman General Hospital, Cal. Randolph, Ft., C. Z. (Eastern Dept.) on Margarita Island, 5 miles from Cristobal P. O., R. R. and Cable stn. Cristobal.

Revere, Ft., Mass. (subpost of Ft. Andrews, Mass.) (Eastern Dept.)—P. O. Hull, Mass.; R. R. stn. Stony Beach, Mass., dist. ½ m.; tel. stn. at post; quartermaster steamer from Boston, dist. 9 m.

Riley, Ft., Kans. (Central Dept.)—P. O., tel. and R. R. stn.

Riley, Ft., Kans. (Central Dept.)-P. O., tel. and R. R. stn.

Robinson, Ft., Nebr. (Central Dept.)-P. O., tel. and R. R. Rock Island Arsenal, Ill .- P. O., tel. and R. R. stn. Rock

Rock Island Arsenal, III.—F. G., tet. and R. R. Star. Rocalishad, III., dist. 1 m.
Rodman, Ft., Mass. (Eastern Dept.)—P. O., tel. and R. R. stn. New Bedford, Mass., dist. 4 m.
Rosecrans, Ft., Cal. (Western Dept.)—P. O., tel. and R. R. stn. San Diego, Cal., dist. 6 m.
Ruger, Ft., H. T. (Hawaiian Dept.)—P. O. and tel. stn. Honolulu, H. T., dist. 6 m.
St. Michael, Ft., Alaska (Western Dept.)—P. O. and tel. stn.

St. Philip, Ft., La. (subpost of Jackson Bks., La.) (Eastern Dept.)—P. O. same; tel. and R. R. stn. Buras, La., dist. 6

Dept.)—P. O. same; tel. and R. R. stn. Buras, La., dist. 6 m.; government steamer to post.

Sam Houston, Ft., Tex. (Southern Dept.)—P. O. same; Field Hospital and Ambulance Co. No. 7; tel. and R. R. stn. San Antonio, Tex., dist. 3 m.

San Diego, Cal. (Western Dept.).

Sandy Hook Proving Ground, N. J.—P. O. Ft. Hancock.
N. J.; tel. stn. Sandy Hook, N. J.; R. R. stn. Highlands, N. J., dist. 6 m.; government railway to post.

San Jacinto, Ft., Tex. (subpost of Ft. Crockett) (Eastern Dept.)—P. O., tel. and R. R. stn. Galveston, Tex.

San Juan, Porto Rico (Eastern Dept.)—P. O. and tel. stn. same.

Schofield Barracks, Hawaii (Hawaiian Dept.)—P. O. and tel. stn. (via Honolulu, Hawaii), same; R. R. from Honolulu to

stn. (via Honoliul, Hawail), same, R. R. Robin Honoliul to post; dist. 27 m.

Schuyler, Ft., N. Y. (subpost of Ft. Totten, N. Y.) (Eastern Dept.)—P. O., tel. and R. R. stn. Westchester Stn., New York City, dist. 3 m.; R. R. freight stn. Pier 12, East River, New York City, care of Depot Om., New York City.

Screven, Ft., Ga. (Eastern Dept.)—P. O., tel. and R. R. stn.

Shafter, Ft., Hawaii (Hawaiian Dept.)—P. O. and tel. stn. Honolulu, Hawaii, dist. 3 m. Sheridan, Ft., Ill. (Central Dept.)—P. O., R. R. and tel. stn.

Sherman, Ft., C. Z. (Eastern Dept.), at Toro Point, P. O., Cable and R. R. stn. Cristobal; government steamer between Toro Point and Cristobal, 3 m.

Sill, Ft., Okla. (Southern Dept.)-P. O., tel. and R. R. stn.

Slocum, Ft., N. Y.—P. O. same; R. R. stn. New Rochelle, N. Y., dist. 2 m.; tel. stn. at post; R. R. freight stn. Pier 12, East River, New York City, care of Depot Qm., New York

Smallwood, Ft., Md. (subpost of Ft. Howard) (Eastern Dept.)
—P. O., tel. and R. R. stn. Baltimore, Md., dist. 11 m.
Snelling, Ft., Minn. (Central Dept.)—P. O. and tel. stn.
same: electric street railway to St. Paul, Minn., dist. 7 m.

UNITED STATES ARMY POSTS AND FORTS-Cont'd

Springfield Armory, Mass.-P. O., tel. and R. R. stn. Springfield, Mass.

neid, Mass. (subpost of Ft. Strong) (Eastern Dept.)
—P. O., tel. and R. R. stn. Boston, Mass., dist. 7 m.
Stark, Ft., N. H. (subpost of Ft. Constitution) (Eastern
Dept.)—P. O., tel. and R. R. stn. Portsmouth, N. H., dist.

Stevens, Ft., Oreg. (Western Dept.)-P. O., tel. and R. R.

stn. same.

stn. same.

Strong, Ft., Mass. (Eastern Dept.)—P. O., tel. and R. R. stn. Boston, Mass., dist. 5 m.; Government boat to post.

Sumter, Ft., S. C. (subpost of Fort Moultrie) (Eastern Dept.)
—P. O. Moultrieville, S. C.; tel. and R. R. stn. Charleston, S. C., dist. 6 m.; Government boat to post.

Terry, Ft., N. Y. (Eastern Dept.)—P. O. same; tel. and R. R. stn. New London, Conn., dist. 13 m.; Government boat to post.

Texas City, Tex.

Thomas, Ft., Ky. (Eastern Dept.)—P. O. and tel. stn. Ft. Thomas Station, Newport, Ky.

Totten, Ft., N. Y. (Eastern Dept.)—P. O. and tel. stn. same; R. R. stn. Whitestone, N. Y., dist. 2 m.; R. R. freight stn. Pier 12, East River, New York City, care of Depot Qm., New York City.

York City.

Travis, Ft., Tex. (subpost of Ft. Crockett) (Eastern Dept.)—
P. O., tel. and R. R. stn. Galveston, Tex.
U. S. Disciplinary Batracks, Ft. Leavenworth, Kans.—P. O., tel. and R. R. stn. Ft. Leavenworth, Kans.—Q. (Pacific Branch)—

tel. and R. R. stn. Ft. Leavenworth, Kans.
U. S. Disciplinary Barracks, Alcatraz, Cal. (Pacific Branch)—
P. O. Alcatraz, Cal.; tel. and R. R. stn. San Francisco, Cal.,
dist. 4 m.; Government steamer daily to post.
U. S. Disciplinary Barracks, Ft. Jay, N. Y. (Atlantic Branch)
—P. O. New York, N. Y.; tel. stn. Governors Island, New York
City; Government steamer to post.
Vancouver Barracks, Wash. (Western Dept.)—P. O., tel. and
R. R. stn. Vancouver, Wash.
Wadsworth, Ft., N. Y. (Eastern Dept.)—P. O. and tel. stn.
Rosebank, N. Y.; R. R. stn. at post.
Walter Reed General Hospital, D. C.—P. O., tel. and R. R.
stn. Takoma Park. D. C.; electric line from Washington, D. C.,

tn. Takoma Park, D. C.; electric line from Washington, D. C., dist. 5 m.

Ward, Ft., Wash, (Western Dept.)-P. O. same: R. R. stn.

Seattle, Wash., dist. 11 m.; tel. stn. (via Seattle) at post; Government boat to post.

Warren, Ft., Mass. (Eastern Dept.)-P. O. same; R. R. and

Warren, Ft., Mass. (Eastern Dept.)—P. O. same; R. R. and tel. stn. Boston, Mass.; steamer from Boston, dist. 7 m. Washington Barracks, D. C. (Eastern Dept.)—P. O. and R. R. stn. Washington, D. C.; tel. stn. at post.
Washington, Ft., Md. (Eastern Dept.)—P. O. and tel. stn. same; steamboat from Washington, D. C., dist. 13 m. Watertown Arsenal, Mass.—P. O. and tel. stn. Watertown Arsenal, Mass.—P. O. and tel. stn. Watertown, Mass., R. stn. Faneuil, Mass., dist. 1 m.; electric street cars from Boston, Mass., dist. 6 m.
Watervliet Arsenal, N. Y.—P. O. and tel. stn. (telephone to post) Watervliet, N. Y.; R. R. stn. Troy, N. Y., dist. 1 m.; electric street cars to Albany, N. Y.
Wayne, Ft., Mich. (Central Dept.)—P. O. Detroit, Mich., tel. stn. at post; city railway from Detroit, dist. 4 m.
West Point, N. Y. (U. S. Mil. Acad.)—P. O., tel. and R. R. stn. same.

stn. same.

Wetherill, Ft., R. I. (subpost of Ft. Adams) (Eastern Dept.)-P. O. and tel. stn. Jamestown, R. I.; R. R. stn. Newport, R. I., 2 m.

P. O. and tel. stn. Jamestown, R. I.; R. R. stn. Newport, R. I.; dist. 2 m. Whipple Barracks, Ariz. (Southern Dept.)—P. O. same; tel. and R. R. stn. Prescott, Ariz., dist. 1 m. Whitman, Ft., Wash. (subpost of Ft. Worden) (Western Dept.)—P. O. La Conner, Wash.; tel. and R. R. stn. Mount Vernon, Wash., dist. 12 m. Wm. H. Seward, Ft., Alaska (Western Dept.)—P. O. and tel. stn. Haines, Alaska. Williams, Ft., Me. (Eastern Dept.)—P. O. Cape Cottage, Me.; tel. and R. R. stn. Portland, Me., dist. 4 m. Winfield Scott, Ft., Cal. (Western Dept.)—P. O. and tel. stn. same; R. R. stn., San Francisco, Cal., dist. 7 m. Wood, Ft., N. Y. (Eastern Dept.)—P. O. and R. R. stn. New York, N. Y., dist. 3 m.; tel. stn. at post. Worden, Ft., Wash. (Western Dept.)—Tel. stn. same; P. O. Port Townsend, Wash.; R. R. stn. Seattle, Wash., dist. 51 m.; Government boat to post. Yellowstone, Ft., Wyo.—P. O. Yellowstone Park, Wyo.: tel. stn. Mammoth Hot Springs, Wyo.; R. R. stn. Gardiner, Mont., on N. P. R. R., dist. 5 m. Yuma, Ariz. (Southern Dept.).

LIST OF MILITARY POSTS AND GARRISONED TOWNS IN PHILIPPINE ISLANDS

	Miles from Manila	Province	Island
Augur Barracks (Jolo)		2	Jolo
Camp Eldridge (Los Baños)	34	Laguna	Luzon
Camp Gregg (Bayambang)	101	Pangasinan	Luzon
Camp John Hay (Baguio)	171	Mountain.	Luzon
Camp Keithley	618		Mindanao
Camp McGrath (Batangas)	113	Batangas	Luzon
Camp Nichols (Maricaban)	5	Rizal	Luzon
Camp Overton			Mindanao
Camp Stotsenburg (Angeles)	55	Pampanga.	Luzon
Fort Mills	31	Cavite	Corregidor
Fort San Pedro (Iloilo)	403	Iloilo	Panay
Fort William McKinley	6	Rizal	Luzon
Fort Wint	69	Zambales	Grande
Ludlow Barracks (Parang)	842		Mindanao
Manila			Luzon
Cuartel de España			
Cuartel de Infanteria			
Department Hospital			
Fort Santiago			
Medical Supply Depot			
Manila Ordnance Depot			
Pettit Barracks (Zamb)	690		Mindanao
Regan Barracks (Daraga)	423	Albay	Luzon
Tientsin, China	2065		
Warwick Barracks (Cebu)	450	Cebu	Cebu
WALTICK DALLACES (CEDU)	±30	Cebu	Cepu

THE POPE OF ROME

The present Pope, Benedict XV. (Giacomo della Chiesa), was born at Genoa, Italy, November 21, 1854. He became Archbishop of Bologna December 18, 1907; Cardinal, May 25, 1914; was elected Supreme Pontiff, or Pope, to succeed Pius X. September 3, 1914, and was crowned September 6, 1914. There

have been 257 Popes, of whom 105 were Roman, 100 Italian other than Roman, 52 Transalpine, or (with the exception of Sardinia or Sicily) Transmarine. Hadrian IV was the only English Pope (1154–1159).

CHIERPATED PURCEEN TIMESPRONTED

CELEBRALED	ECHOFEAN	CHIATIP	TITES
Country	University		
Austria	Vienna		1365
Belgium	Louvain		1426
Bohemia	Prague		1348
Denmark	Copenhage	n	1476
England	Cambridge		1257
66	Oxford		1262
France	France (Pa	ria)	792
	Lyons	110/	920
66	Rheims	* * * * * * * * * * *	1145
44	Orleans	********	1205
66	Anjou		, 1303
Germany	Traidalbase		1349
Germany	neidelberg		1380
	Leipzig		1409
TT-U A	Jena		1547
Holland	Leyden		1575
	Utrecht		1634
Ireland	Dublin		1591
Italy	Bologna		1116
	Padua		1228
************	Rome		1245
Poland	Cracow		700
Portugal	Coimbra		1270
Scotland	St. Andrew	²g	1411
	Glasgow.,		1450
46	Aberdeen.		1404
46	Edinburgh		1502
Spain	Cordova		1384
66	Valladolid		***** 908
Switzerland	Canadoud,		1340
Switzerland	Geneva		1368

THE NATIONAL GUARD

State	Headquarters	Officers	Men	State	Harden (0.00	I
/				Diale	Headquarters	Officers	Men
Alabama	Montgomery	146	2,615	New Mexico	Santa Fe	60	0.54
Arizona	Phoenix	53	742	New York	Albany	1.002	851
Arkansas		105	1.547	North Carolina	Raleigh	211	15,607
California		249	3,440	North Dakota	Bismarck	56	2,809 676
Colorado	Denver	119	1,637	Ohio	Columbus	487	5,309
Connecticut'	Hartford	195	2,772	Oklahoma	Oklahoma City	69	
Delaware		40	450	Oregon	Portland	104	1,026 1,622
Dist. of Columbia		129	1.847	Pennsylvania	Harrisburg	762	
Florida	St. Augustine	95	1,320	Rhode Island	Providence	90	10,266
Georgia	Atlanta	229	2,714	South Carolina	Columbia	136	1,589
Hawaii	Honolulu	61`	905	South Dakota	Watertown	67	975
Idaho	Boise	58	946	Tennessee	Nashville	107	1,639
Illinois	Springfield	522	5,550	Texas	Austin	145	2,091
Indiana	Indianapolis	132	2,077	Utah	Salt Lake City	32	566
Iowa	Des Moines	211	3,092	Vermont	St. Albans	73	730
Kansas	Topeka	123	1,812	Virginia	Richmond.	200	2,703
Kentucky	Frankfort	168	2,329	Washington	Seattle	86	1,234
Louisiana	Baton Rouge	68	1,044	West Virginia	Charleston	117	1,607
Maine	Augusta	101	1,288	Wisconsin	Madison	196	3,095
Maryland	Annapolis	156	1,917	Wyoming	Cheyenne.	34	598
Massachusetts	Boston	426	5,653				390
Michigan		188	2,773	Total		8,705	120,693
Minnesota	St. Paul	227	3,280			-,,,,,	120,000
Mississippi	Jackson	78	1,127				<u> </u>
Missouri	Jefferson City	227	3,872	In time of peace	the National Guard		. 3 7
Montana	Helena		663	intra-State purposes	such as suppression	of strikes	on bully for
Nebraska	Lincoln	119	1,474	of the peace unless	in the very improba	or surkes (or preaches
Nevada.*				called upon by the	President to serve in	anie event	diagrador in
New Hampshire	Concord	91	1,323	some State. The pr	prosed reorganization	of the arm	usorder in

1,323 4,176

THE PENSION LAW

On May 11th, 1912, a pension act was approved which carried an increase the first year of \$21,185,227 and an average of \$20,000,000 annually for the five years that followed. The old pension law for the last fiscal year carried \$152,000,000. The present pension law, somewhat abbreviated, is as follows:

No Organized Militia (mustered out May 20, 1906)

New Jersey..... Trenton....

THE LAW

The LAW

That any person who served ninety days or more in the military or naval service of the United States during the late Civil War, who has been honorably discharged therefrom, and who has reached the age of sixty-two years or over, shall be placed upon the pension roll and be entitled to receive a pension as follows: In case such person has reached the age of sixty-two years and served ninety days, thirteen dollars per month; six months, thirteen dollars and fifty cents per month; one and a half years, fourteen dollars per month; two years, fitteen dollars per month; two and a half years, fitteen dollars per month; three years or over, sixteen dollars per month. In case such person has reached the age of sixty-six years and served ninety days, fifteen dollars per month; six months, fitteen dollars and fifty cents per month; one year, sixteen dollars per month; one and a half years, sixteen dollars and fifty cents per month; two years, seventeen dollars per month; two and a half years, eighteen dollars per month; two years, seventeen dollars per month; two and a half years, eighteen dollars per month; one year, twenty dollars per month; one year, twenty dollars per month; one and a half years, twenty-three dollars per month; two and a half years, twenty-four dollars per month; three years or over, twenty-four dollars per month. In case such person has reached the age of seventy for years and served ninety days, twenty-four dollars per month; three years or over, twenty-five dollars per month. In case such person has reached the age of seventy-four dollars per month; three years or over, twenty-five dollars per month. In case such person has reached the age of seventy-five years and served ninety days, twenty-one dollars per month; one year, twenty-four dollars per month; two years or over, thirty dollars per month. That any person who served in the military or naval service of the United States during the Civil War and received an honorable discharge, and who was wounded in battle or in line of duty and is

manual labor, shall be paid the maximum pension under this Act, to wit, thirty dollars per month, without regard to length of service or age.

called upon by the President to serve in quelling disorder in some State. The proposed reorganization of the army suggests

a stronger federal control over the State militias.

Act, to wit, thirty dollars per month, without regard to length of service or age.

That any person who has served sixty days or more in the military or naval service of the United States in the War with Mexico and has been honorably discharged therefrom, shall be entitled to receive a pension of thirty dollars per month. All of the aforesaid pensions shall commence from the date of filing of the applications in the Bureau of Pensions after the passage and approval of this Act: Provided, That pensioners who are sixty-two years of age or over, and who are now receiving pensions under existing laws, or whose claims are pending in the Bureau of Pensions, may, by application to the Commissioner of Pensions, in such form as he may prescribe, receive the benefits of this Act; and nothing herein contained shall prevent any pensioner or person entitled to a pension from prosecuting his claim and receiving a pension under any other general or special Act: Provided, That no person shall receive a pension under any other law at the same time or for the same period that he is receiving a pension under the provisions of this Act: Provided furliker, That no person who is now receiving or shall hereafter receive a greater pension, under any other general or special law, than he would be entitled to receive under the provisions herein shall be pensionable under this Act.

Sec. 2. That rank in the service shall not be considered in applications filed hereunder.

Sec. 3. That no pension attorney, claim agent, or other person shall be entitled to receive under the provisions for original pension, under this Act, except in applications for original pension by persons who have not heretofore received a pension.

Sec. 4. That the benefits of this Act shall include any person

for original pension by persons who have not heretofore received a pension.

SEC. 4. That the benefits of this Act shall include any person who served during the late Civil War, or in the War with Mexico, and who is now or may hereafter become entitled to pension under the Acts of June twenty-seventh, eighteen hundred and ninety, February fifteenth, eighteen hundred and ninety-five, and the joint resolutions of July first, nineteen hundred and two, and June twenty-eight, nineteen hundred and six, or the Acts of January twenty-ninth, eighteen hundred and eighty-seven, March third, eighteen hundred and ninety-one, and February seventeenth, eighteen hundred and ninety-seven, SEC. 5. (omitted; relates to records).

THE PENSION BOLL

(June 30, 1915)

State:	Number	Amount	War of the Revolution (estimate) \$70,000,000 .00 War of 1812 (service pension) 45,972,895 .76 Indian wars (service pension) 13,315,227 .19 War with Mexico (service pension) 49,618,948 .68 Civil War 4,614,643,267 .43 War with Spain and insurrection in Philippine 49,944,441 .84 Islands 49,944,441 .84 Regular establishment 16,508,447 .41 Unclassified 16,508,447 .41 Total disbursements for pensions 4,895,475,637 .08
Alabama	. 2,949	Dollars 652,706.23	Indian wars (service pension)
Alaska	73	16,243.82	War with Mexico (service pension) 49,018,948.08
ArizonaArkansas		180,791.61 1 779 647 63	War with Spain and insurrection in Philippine
California	26,441	1,779,647.63 5,852,416.37 1,626,280.65 2,021,195.34	Islands
Colorado	7,347	1,626,280.65	Unclassified
Delaware	2,374	525,498.13	Total disbursements for pensions 4,895,475,637.08
District of Columbia	8,203	1,815,721.57 1,027,368.89	There are now no pensioners on account of the Revolutionary War on the roll. Mrs. Phœbe M. Palmeter, who was pensioned
FloridaGeorgia	2,734	605,240.52	by a special act of Congress as the daughter of Jonathan Wooley,
Idaho	2,049 51,542	453,561.21 11,409,082.92	who served in a New Hampshire company, died at Brookfield,
IllinoisIndiana	45,613	10,096,919.78	of that war was Esther S. Damon of Plymouth Union, Vt.
Iowa	25,397	5,621,416.89	who died Nov. 11, 1906, aged 92 years. The last survivor of the
Kansas	. 19.491	6,543,877.69 4,313,894.54 1,085,593.49 2,881,484.94	War on the roll. Mrs. Phoebe M. Palmeter, who was pensioned by a special act of Congress as the daughter of Jonathan Wooley, who served in a New Hampshire company, died at Brookfield, N. Y., April 25, 1911, aged 90 years. The last widow pensiones of that war was Esther S. Damon of Plymouth Union, Vt., who died Nov. 11, 1906, aged 92 years. The last survivor of the Revolution was Daniel F. Bakeman, who died at Freedom, Cattaraugus County, N. Y., April 5, 1869, aged 109 years 6 months and 8 days.
Louisiana	4,902	1,085,593.49	months and 8 days.
Maine	11,355	2,513,362.00 6,893,418.56	United States Pensioners Since 1870
Maryland	31,143 31,302	6,893,418.56 6,928,648.67	
Minnesota	11,596	2,566,734.55	Yr. Yr. end No. of end No. of
Mississippi	3,660	810,081.42	June pen- Disburse- June pen- Disburse-
Missouri. Montana.	. 2.158	7,975,940.97 477,610.51	
Nebraska	. 13,113	2,902,369.85	1871207,495 28,518,792 1894969,544 139,986,726 1872232,229 29,752,746 1895970,524 139,812,294
New Hampshire	5,988	80,586.22 1,325,453.54	1873 238 411 . 26 982 063 1896 970 678 138 220 704
New Jersey	. 18,813	1,325,453.54 4,164,685.43	1874236,241 30,206,778 1897976,014 139,949,717
New Mexico	1,731	383,101.01 13,791,017.65 733,714.37 592,161.08	1875234,821 29,270,404 1898993,714 144,651,879 1876232,137 27,936,209 1899991,519 138,355,052
New York. North Carolina.	. 3,315	733,714.37	1877232.104 28.182.821 1900993.529 138.462.130
North DakotaOhio	. 2,675 . 70,768	15,666,677,11	1878223,998 26,786,009 1901997,735 138,531,483 1879242,755 33,664,428 1902999,446 137,504,267
Oklahoma	. 10,404	15,666,677.11 2,302,825.21	1880250,802 56,689,229 1903996,545 137,659,653
OregonPennsylvania	. 69,011	1,575,650.56 15,275,745.00	1881268,830 50,583,405 1904994,762 141,093,571 1882285,697 54,313,172 1905998,441 141,142,861
Rhode Island	. 4,092	005 645 72	1883303,658 60,427,573 1906985,971 139,000,288
South Carolina		1.089.390.75	1883., 303,658 60,427,573 1906.,985,971 139,000,288 1884.,322,756 57,912,387 1907.,967,371 138,155,412 1885.,345,125 65,171,937 1908.,951,687 153,093,086
Tennessee	. 15,477	342,385,98 1,089,390.75 3,425,758.39 1,697,584.69 207,372.41	
Texas Utah	. 937	207.372.41	1887406,007 73,752,997 1910921,083 159,974,056 1888452,557 78,950,501 1911892,098 157,325,160
Vermont	5 970	1,321,445.32	1889489,725 88,842,720 1912860,294 152,986,433
Virginia Washington West Virginia	. 7,950 . 9,075	2.008.748.78	1890537,944 106,093,850 1913820,272 174,171,660 1891676,160 117,312,690 1914785,239 172,417,546
West Virginia	9,693	1,321,445.32 1,759,606.55 2,008,748.78 2,145,450.02 3,995,768.81	1891676,160 117,312,690 1914785,239 172,417,546 1892876,068 139,394,147 1915748,147 166,518,266
Wisconsin	. 18,053 . 766	169,610.80	
Total		164,537,494.15	TROOPS IN THE UNITED STATES WARS
INSULAR POSSESSIONS		202,001,272,13	Wars Vears Troops
Canal Zone	. 1	240.00	Revolution
Guam	. 2	504.00	Northwest Indians
Hawaii	. 69 . 55	15,189.03 12,235.60	With Tripoli (naval)
Porto Rico	. 33	12,235.60 7,383.17	War of 1812
Total	159	35,311.80	Semmole Indians
FOREIGN COUNTRIES		945,220.19	Creek Indians
			Cherokee troubles
Grand Total	. 748,147	165,518,266.14	Florida Indians
Made 1 To 1	D. 1.5	,	Mexican
Total Pension	ons Paid		Mexican 1846–1848 112,230 Apache, Navajo and Utah 1849–1855 2,561 Oregon and Washington Indians 1851–1856 7,229
The amounts that have been p	paid for per	sions to soldiers,	Florida Indian war
sailors, and marines, their widows ent relatives on account of milit	minor child	ren, and depend-	Civil War
ent relatives on account of milits several wars and in the regular se	rvice since	the foundation of	Philippine Insurrection
the Government to June 30, 1915,	are as lonos	75:	* Includes navy.

THE UNITED STATES NAVY

GENERAL BOARD OF THE NAVY

GENERAL BOARD OF THE NAVY

Admiral of the Navy George Dewey, President.

Rear Admiral Austin M. Knight, President Naval War College.

Rear Admiral Charles J. Badger (retired).

Rear Admiral F. F. Fletcher.

Rear Admiral W. S. Benson, Chief of Naval Operations.

Captain James H. Oliver, Director of Naval Intelligence.

Captain Harry S. Knapp.

Captain Spencer S. Wood.

Captain Charles F. Hughes.

Captain W. B. Fletcher.

Commander H. J. Ziegemeier, Secretary.

Major General Comndt. G. Barnett, Commandant of Marine

Corps.

SECRETARY'S ADVISORY COUNCIL

F. D. Roosevelt, Asst. Secy. of the Navy. Rear Adm. W. S. Benson, Chief of Naval Operations. Engr. in Chf. R. S. Griffin, Chief of Bureau of Steam Engineer-

ing. Rear Adm. J. Strauss, Chief of Bureau of Ordnance. Rear Adm. L. C. Palmer, Chief of Bureau of Navigation. Surg. Genl. W. C. Braisted, Chief of Bureau of Medicine and

Surgery.

Paym. Genl. S. McGowan, Chief of Bureau of Supplies and Accounts.

Chf. Constr. D. W. Taylor, Chief of Bureau of Construction

and Repair.
Civ. Engr. F. R. Harris, Chief of Bureau of Yards and Docks.
Maj. Genl. Comdt. G. Barnett, Comdt. of Marine Corps.
Capt. R. McLean, Judge Advocate General.

NAVAL STATIONS AND COMMANDANTS

Guantanamo, Cuba. Commander D. W. Knox.
Hawaii Captain G. R. Clark.
Key West, Fla. Commander W. J. Terhune.
Mare Island, Cal. Captain Frank M. Bennett.
Narragansett Bay, R. I. Rear Admiral Austin M. Knight.
New York Rear Admiral Nathaniel R. Usher.
New Orleans, La. Captain Marbury Johnston.
Norfolk, Va. Rear Admiral W. McLean.
Olongapo, Philippines Captain Benjamin Tappan.
Pensacola, Fla., Aeronautic
Station Lt. Commander W.

FLEETS AND THEIR COMMANDERS Atlantic Fleet

Admiral H. T. Mayo, Commander in Chief.* Wyoming (Flagship).

Battleship Force

Division Five.—Minnesota (Flagship), Michigan, South Carolina, Vermont. Division Six.-New York (Flagship), Delaware, Oklahoma,

Division Seven.—Florida (Flagship) North Dakota, Utah. Division Eight.—Arkansas (Flagship), Arizona, Nevada, Pennsylvania.

Destroyers and Submarine Flotilla.

Cruiser Force

Rear Admiral William B. Caperton, Commander. Memphis (Flagship), Des Moines, Montana, Nebraska, North Carolina, Salem. Gunboats and Transports.

Atlantic Reserve Fleet

Rear Admiral James M. Helm, Commander, Alabama (Flagship), Chester, Chicago, Connecticut, Georgia,

Illinois, Kansas, Kearsarge, Kentucky, Louisiana, Maine, Missouri, New Jersey, Ohio, Rhode Island, Virginia, Washington, Wisconsin.

Pacific Fleet

Admiral W. B. Caperton, Commander in Chief.*
San Diego (Flagship), Albany, Chattanooga, Cleveland,
Denver, Raleigh.

Gunboats, Torpedo and Submarine Flotillas.

Pacific Reserve Fleet

Rear Admiral W. F. Fullam, Commander. Colorado (Flagship) Maryland, New Orleans, Oregon, Pitts-burgh, Saratoga, South Dakota, West Virginia.

Asiatic Fleet

Admiral A. G. Winterhalter, Commander in Chief.* First Division.—Brooklyn (Flagship). Cincinnati, Galveston. Gunboats, Torpedo and Submarine Flotillas.

Unassigned

Idaho (fitting out), Marblehead (in reserve), Mississippi (fitting out), Montgomery (in reserve), New Mexico (fitting out), Tacoma (in reserve).

Gunboats, Monitors, Transports, Supply Ships and Yachts.

* According to act of March 4, 1915 a Rear Admiral holds the rank of Admiral while serving as Commander in Chief, and holds the rank of Vice Admiral while serving as second in command.

RELATIVE BANK IN ARMY AND NAVY

Generals rank with Admirals Lieutenant-Generals rank with Vice-Admirals.

Major-Generals rank with Rear-Admirals.

Brigadier-Generals rank with Commodores. Brigadier-Generals rank with Commodores, Colonels rank with Captains.
Lieutenant-Colonels rank with Commanders.
Majors rank with Lieutenant-Commanders.
Captains rank with Lieutenants.
First Lieutenants rank with Lieutenants Junior Grade.
Second Lieutenants rank with Ensigns.
Cadets rank with Midshipmen.

NAVY ENROLLMENT Enlisted Officers Men

NAVAL MILITIA 1916

	Ennstea		Ennsted
STATE	Officers Men	State	Officers Men
California	64785	Missouri	. 18 220
Connecticut	19306	New Jersey	
Dist. of Columbia	12211	New York	. 901,341
Florida	11 78	North Carolina	. 49 333
Georgia		Ohio	. 20 258
Illinois	41582	Oregon	. 12 168
Indiana	* *	Pennsylvania	
Louisiana	28285	Rhode Island	. 14 189
Maine	11154	South Carolina	. 15 207
Maryland	18 184	Washington	. 20 310
Massachusetts		Wisconsin	. 9 84
Michigan	37392		
Minnesota	27377	Total	.6067,706
* Disbanded.			

GREATEST WARSHIP IN 1812 AND 1916 COMPARED

Cor	nstitution Arizona
Length in feet	175
Displacement—tons	.2,20031,400
Speed-knots	. 13.5
Main battery	22-32-pounders 12 14-inch rifle 32-24-pounders 22 5-inch rapid fire 1-18-pounder guns

 Weight of a single broadside,

 in pounds.
 684
 10,000

 Annual cost of upkeep \$193,220.
 \$700,000

 Weight of gun—32-pounder.
 3,200 lbs.
 12-inch, 125,664 lbs.

 Weight of projectile.
 32 lbs.
 870 lbs.

 Weight of powder charge
 5 lbs.
 450 lbs.

 Penetration, 18 ins. wood at 1,000 yds.
 15 ins. steel at 10,000 yds.

LISTS OF VESSELS IN THE UNITED STATES NAVY IN FULL COMMISSION

										UIII.	LILL	312	XIL	12 TA	AVX										
In com- mission	17/16	. 17/12	. 15/11	11/16	15/14	3/16	13/16	12/14	31/11	25/12	4/40	4/10	/n/c	4/10	20/6	1/03	-	4104			4/07	4/01	21/08	2/08	-
	\$7,425,000. June 19/15. Oct. 17/16	14/11Sept. 17/12	12/10Sept. 15/11	11/14Mar. 11/16	30/12Apr. 15/14	5,926,000. Mar. 23/14 May	7,260,000. Mar. 16/15. June 13/16	5,830,000. May 18/12 Mar. 12/14	23/09Aug. 31/11	25/11Sept.	* *	0/09Apr.	*,103,000Aug. 12/03Apr.	26/08Jan.	8/05Mar.	28/01Dec.	30/06Mar.	5	3 540 000 Tuly 11/08 Me-	o Ivida.	Aug. 61/02. Mar.	2,674,950Nov. 26/98Feb.	3,575,000Dec. 15/06July	6/06May	
Launched	me 19/1				ct. 30/1	[ar. 23/1	lar. 16/1	lay 18/1	ec. 23/0	ay 25/1		o/o •/o	ug. 17/0	ay 26/0			ine 30/0	18/0	ay 10/0	13 A1/0	18: 21/0	ov. 26/9	sc. 15/0		
Contract price hull & machinery	,000. Jr	,000.J	* 6,400,000. May	5,895,000. July	* 6,400,000Oct.	,000, IM	,000,	,000,1M	3,946,000. Dec.	4,450,000 May	2 087 000 Tob	,000,	,,,,,,	3,585,000. May	4,110,000Apr.	2,885,000. Dec.	3,748,000June	2 800 000 May 18/01 Oct	000	000		,950. N	,000. D	3,575,000Oct.	
Cont price	\$7,425	\$4,67		5,895		5,926	7,260														4;1,49,000			3,575	
mber of	l funnel	2 cage masts, 2 funnels\$4,675,000Jan.	2 funnels.	funnel	.2 cage masts, 2 funnels.	I funnel	1 funnel	21", subm2 cage masts, 2 funnels	2 cage masts, 2 funnels	2 21", subm 2 cage masts, 2 funnels	9 funnale	cage masts, 2 funnels	Talling	2 funnels	.2 cage masts, 3 funnels	3 funnels.	.2 cage masts, 3 funnels	3 funnels	2 firmple	funns	o maneis.	2 funnels	., 1 cage	, 1 cage	els
and number	.2 cage masts, 1 funnel	masts,	2 cage masts,	2 cage masts, 1 funnel	masts,	masts, 1	masts,	masts,	masts, 2	masts, 2	moche	masts,	masts, c	masts, 2	masts, 3	masts, 3	masts, 3	maste 3	macte 2	m control	masts,	ısts,	f military mast, 1 mast. 4 funnels	ary mast, 1	t, 4 funn
Rig	2 cage	2 cage	2 cage	2 cage		21", subm2 cage masts, 1 funnel	2 cage masts, 1 funnel	2 cage	2 cage	2 cage	2 6300	, 4 tage	0480	2 cage masts,	.,2 cage	2 cage masts,	2 cage	2 cage maste	2 Camp magta	3 00 00	ogeo 7.	.2 cage mage abreast	.1 milit	21", subm1 military n	mas of cost.
Torpedo Tubes	Line 4 21", subm	2 21", subm	21", subm	4 21", subm	4 21", subm	. supm.	4 21", subm	.mqns,	2 21", subm	subm	Mod 2.24" subm	21" curbm	aunum.	2 21", subm	4 21", subm	2 18", subm	4 21", subm	2 18", suhm.	2.21" suhm.		supur		subm	subra	ma *Limit of cost.
i I	_		2			41		44			I Kind		м	2 21",	4 21",	2 18",	4 21",						£ 21″,	4	
	s, First	, 51 cal	" 51 cal.	, 51 cal.	' 51 cal.	, 51 cal.	, 51 cal.	, 51 cal.	, 51 cal.	, 51 cal.	Second	1 12 T	8 3% 50	50 cal.	al. B. L. 8 3" 50	al, B. L.	R.; 6 3" 50 cal. R. F.; 4 3-pdr. saluting. 4 12" 45 cal. B. L. R.; 8 8" 4 5 cal. B. L. 4 B 17 7" 45 cal B P P 18 2" 50 cal	R. F. J. C.	aluting.	I a I	R.; 18 3" 50 cal. R. F.; 4 6-pdr. salut-	l. R. F.; ' ing.	Armored Cruisers 16 6" 50 cal. B. L. 4 6-pdr. salut-	d. B. L.	r. salut-
, (sung	Battleships, R.; 22 5" 51	R.; 21 5"	i.; 16 5"	.; 21 5"	21 5"	L. R.; 21 5"	.; 22 5"	.; 21 5"	R.; 16 5"	.; 21 5"	Battleships, S	27, 45	F. R.; 1	; 22 3"	8" 45 c	ting. 6"50 c	8''4 5 c	6" 50 6	6-pdr. 377 50 ca	7" 45 0	4 6-pd	14 6" 40 cal. R. 6-pdr. saluting.	Armored 16 6" 50 c: F.: 4 6-pd	16 6" 50 cal.	4 6-pd
Batteries (Guns)	Batt cal. B. L. R.;	B. L. R		B. L. R.;	6.7	3 2	B. L. R.; 2	3 . 0		B. L. R.;	Battle B	saluting	al. B.	our, sam . L. R. saluting	L. R.; 8 al. B. I	odr. salu	R. F.; 4 L. R.; 8	saluting. R: 16	R. F.: 4 R: 22	g. D . 12	R. F.	L. R.; 14 R. F.; 4 6-p	~ ~ ~	.Y.	4
Baí	55.	50 cal.	45 cal. B	de d	5 cal.	S cal.	7245	M 1873	S cal.	o cal.	45 001	4 3-pdr.	7" 45	cal. B	cal. B. 1	F.; 4 6-1	, 50 cal. cal. B.]	6-pdr.	' 50 cal.	saluting	3" 50 ca	cal. B	cal. B. L.] 3" 50 cal.	cal. B. L.	20
	2.6	12 12"	. 10 12" 45 R F - 4 3	10 14" 4 P F 4	10 14"'	1 CE	.12 14", P. F.		10 12" P F	.12 12" 5 R. F.;	10 12"	R. F.:	R.; 12	3 12" 4 R F	12" 45 R.; 12	cal. R. 12" 40	R.; 63 12" 45 P · 17	R. F.;	R.; 63'	2 3-pdr	R.; 18	3,,3	10" 40 R.: 22	ing: 10", 40	K.; 22 ing.
Horse Power	. †34,000					- :	- 1	- 1	- :		20 520 10	10.757	•			16,2774					0,44V 4	2,6094	.28,2804	1,2744	
Speed Knots	. 121.0 . 1	21.0529,320	22.0841,810.	.20.5326,500	0" † 21.0028,100.	0"20.5824,800	21.0531,500	.21.0528,100	21.0428,136	21.2234,956	25	2		.18.7916,500	.18.8520,572	18.151	18.1618,104	17.8216.507	18.86.18.357	18 33 18 240	0.00.	17.17,.12,609	26.	.21.9127,	
Length	,0	ò	9	0′′.			ò		%	ò	7 0" 21	` *	ĸ	9″.	4″.	.393' 11"1	4	10″	ò	, ,	2	10′′	5"22	3,	
Ł	,400608'	000562	825521	500583'	000573'	500583	400608	000573	825521'	300.,562	000 5187	:		00452	00456		00456	003937			•	52373'	00504′	00504	
Displac ment	31	26,	21,	27,	27,	27,	31,	27,	21,	26,	20.0	16.		16,0	16,0	12,5	re16,0	12.5	16.0	16.0	0,01	11,5	14,5(1 14,5	† Estimated.
	Arizona31,400	Arkansas26,000	Florida21,825	Nevada27,500	New York27,000	Oklahoma27,500	Pennsylvania31,400	Texas27,000	Utah21,825	Wyoming26,000	Delaware 20 000	Tanese 16 000		Michigan 16,000	Minnesota16,000.	Missouri12,500	New Hampshire16,000.	Ohio 12.500	South Carolina, 16,000.	Vermont 16 000		Wisconsin11,552.	Montana14,500.	North Carolina14,500.	† Est
	Ariz	Arka	Flori	Neva	New	Okla	Penn	Texa	Utah	Wyor	Delay	T and	en page	Michi	Minn	Misso	New I	Ohio	South	Vormo	Vermo	Wiscol	Monta	North	

LISTS OF VESSELS IN THE UNITED STATES NAVY IN FULL COMMISSION—Cont'd

<u> </u>	1/07	1/96	94	8 8	80 8	48444848 		42424225252	058252222488810
In com- mission			т. 23/94	11,205,000. Jan. 14/99. May 29/00	r. 11/08	t. 11/04 vv. 2/03 vv. 2/03 vv. 17/04 ay 17/04 ar. 5/05 rr. 17/94 g. 1/08		n. 17/14 vv. 24/02 ur. 26/14 vv. 24/02 1. 20/14 g. 20/16 vv. 20/02 vr. 19/13 tr. 19/13 tr. 24/02	f. 29/10 g. 9/15 g. 14/15 g. 14/15 g. 14/15 g. 14/15 f. 23/11 g. 15/12 g. 30/13 g. 30/13 ot. 29/10
	28/04Aug.	2/95Dec.	2A _I	9M	7AF	3. Oct. 1. Nov. 2. June 2. May 2. Mar. 3. Feb. 7. Apr.		2. Jan. 1 1. Nov. 2 2. Mar. 2 3. Jan. 2 3. Jan. 2 5. Jan. 2 5. Jan. 2 6. Oct. 2	22/100ct. 2 25/13. Aug. 25/14. Aug. 1 21/12. June 2 21/12. June 2 21/12. June 2 21/12. June 1 21/14. June 1 21/14. Apr. 2 20/14. Apr. 2 20/14. Apr. 2 20/14. Oct. 1 22/10. Sept. 2
Launched			26/9	14/9	7 29/0	7/03. 28/01. 10/92. 21/02. 23/03. 31/92.		23/12 27/01 22/02 22/13 22/13 26/01 8/15 6/13 26/00 24/00	22/1/2 22/1/1/2 29/1/2 20/1/2 20/1/2 12/1/2 12/1/2
	.Apr.	.Oct.	July.	.Jan.	. May	Nar. Sept. June Sept. July Mar. July		Nov. Aug. Mar. Mar. May. May. Oct. July Aug. Jan. July Sept.	Aug. Apr. Apr. Apr. Apr. Apr. Apr. Apr. Apr
Contract price hull r machinery	\$3,800,000Apr.	2,986,000Oct.	5,000.	5,000.	1,556,000. May 29/07. Apr.	1,039,966 Mg (\$1,1041,650 NG (\$1,1080,000 NG (\$1,080,000 Ju (\$1,027,000 Ju (\$1,100,000 Mg (\$1,556,000 Ju		756,100. 283,000. 756,100. 283,000. 761,500. 761,500. 761,500. 283,600. 260,000.	644,000 373,500 673,500 673,500 644,000 665,000 665,000 882,000 665,000 882,000 665,00
Contract price hull & machinery	\$3,80	2,98	. 2,72	\$1,20	1,55	1,02 1,08 1,006 1,006 1,100 1,100 1,100			ų,
o Jo	cage	-unj		fun-		s s s		2 masts, 4 funnels. 2 masts, 4 funnels. 2 masts, 4 funnels. Signal pole, 4 funnels. 2 masts, 4 funnels. 3 masts, 4 funnels. 5 masts, 4 funnels. 5 masts, 6 funnels. 5 masts, 6 funnels.	masts, 4 funnels masts, 4 funnels masts, 4 funnels masts, 3 funnels masts, 4 funnels
Rig and number funnels	ast, 1 nnels	asts, 3	funnel	asts, 2	masts	funnel 2 funel funnel funnel funnel		masts, 4 funels ignal pole, 4 funnels masts, 4 funnels masts, 4 funnels ignal pole, 4 funnels masts, 4 funnels ignal pole, 4 funnels	funnels
and num funnels	military mast, 1 mast, 4 funnels	ary m	ier; 4	ary m	els, 2 1	nast, 2 ner; 2 n		masts, 4 funnmasts, 7 funnmasts	<u>কাকাকাকাকাকাকাকাক</u>
Rig	milit	2 military masts, 3 fun- nels	choor	2 military masts, 2 fun-	4 funnels, 2 masts	Schooner; 2 funnels		2 masts, 4 funnels. Signal pole, 4 funnels. Signal pole, 4 funnels. Signal pole, 4 funnels. 2 masts, 4 funnels. 3 masts, 4 funnels. 5 masts, 4 funnels. 7 masts, 4 funnels. 7 masts, 5 funnels. 7 masts, 5 funnels. 7 masts, 7 funnels.	2 masts, 4 funnels. 2 masts, 4 funnels. 2 masts, 4 funnels. 2 masts, 3 funnels. 2 masts, 4 funnels. 2 masts, 4 funnels. 3 masts, 4 funnels. 5 masts, 4 funnels. 5 masts, 4 funnels. 7 masts, 4 funnels. 7 masts, 4 funnels. 8 masts, 9 funnels. 8 masts, 9 funnels. 9 masts, 9 funnels.
	a L			•				twin 18" 2 18" 3 1	3 twin 18" 2 masts 4 twin 18" 2 masts 4 twin 18" 2 masts 3 twin 18" 2 masts 4 twin 18" 2 masts 3 twin 18" 2 masts 4 twin 18" 2 masts 3 twin 18" 2 masts 4 twin 18" 2 masts 3 twin 18" 2 masts 4 twin 18" 2 mast 4 twin 18" 2 mast 5 twin 18" 2 mast
Torpedo Tubes	o nt'd 2 18", subm				2 21", subm.	qns ','		188 188 188 188 188 188 188 188 188 188	twin 18"
Ę,		702 ·	lass	-		2.21		4 twin 2 18". 4 twin 2 18". 4 twin 2 twin 4 twin 4 twin 4 twin 4 twin 4 twin 2 18". 2 18". 2 18".	3 twin 4 twin 4 twin 5 twin 3 twin 3 twin 4 twin 3 twin 4 twin 5
	Cruisers—C 50 cal. B. L. 3-pdr. salut-	Cruiser, First Class 12 5" 40 cal. R. F.;	6" 45 cal. R. F; 8 4" 40 cal. R. F; 2 6-pdr. saluting.	Cruisers, Third Class R.; 2 3-pdr. R. F.	R.; 6 3" 50 cal. R. F.;	E. R.; 8 6-pdr. R. F. E.; 8 6-pdr. R. F. E.; 6 6-pdr. R. F. E. R.; 8 6-pdr. R. F. E. R.; 8 6-pdr. R. F. E.; 6 6-pdr. R. F. E.; 6 6-pdr. R. F. E.; 6 6-pdr. R. F.	'ers		
	Armored Cruisers R.; 14 6" 50 cal. B. . R. F.; 4 3-pdr. sal	oruiser, First Cl. 31.91.18,770.88,35 cal. B. L. R.; 12 5" 40 cal. R. F.; 4 6-pdr. saluting.	Seco cal. R	Cruisers, Third C. E., R.; 2 3-pdr. R. F.	cal. F	pdr. 1 R. F. 1 pdr. 1 pdr. 1 Pdr. 1	Destroyers	संसंसं संसंसं	
(sun	64 6 5 4 55	uiser, 5" 40	ilser, " 40	isers; 2 3-	3″ 50	2000 00 00 00 00 00 00 00 00 00 00 00 00	Ď	F.; 5 6-pdr. R. F. F.; 5 6-pdr. R. F.	
Batteries (Guns)	Armored B. L. R.; 14 6" 50 cal. R. F.; 4	C.; 12	Cru	_ i i	R.; 6	i i i i i i i i i i i i i i i i i i i		5 6-pd 5 6-pd 5 6-pd 5 6-pd	
atteri	Cal.	r. L. F	R. F		۳. ۲. ب			及及及改及及及及及及及及及及及	民民民民民民民民民民民民民民民民民民民民民民民民民民民民民民民民民民民民民民民
, "	aï.	cal. B Ir. salı	cal. Ir. sal	50 cal	cal.]	50 Ca 50 Ca 50 Ca 50 Ca 50 Ca 50 Ca		Call H	call line and a said line and
	8" 45 c R.; 18	ms. 8″35 4 6-pd	6" 4! 2 6-pd	5";	5" 50 2 3-pc	. 65. 5.388. 10.5. 50 cal. B. 95. 4685. 10.5. 50 cal. B. 91. 8.491. 11.5. 40 cal. B. 75. 6.522. 10.5. 50 cal. B. 65. 5.400. 10.5. 50 cal. B. 11. 5.178. 10.5. 50 cal. B. 11. 5.178. 10.5. 50 cal. B. 95. 22,242. 2.5. 50 cal. B.		16,000 . 4 4" 50 cal. R 8,000 . 2 3" 50 cal. R 16,000 . 2 3" 50 cal. R 16,000 . 2 3" 50 cal. R 18,000 . 2 3" 50 cal. R 18,000 . 4 4" 50 cal. R 18,000 . 4 4" 50 cal. R 16,335" 4 4" 50 cal. R 18,000 . 3 3" 50 cal. R 18,000 . 2 3" 50 cal. R 18,000 .	". 30 83 . 15.524* 5 3" 50 cal. R. "29.14 44.455 . 4 4" 50 cal. R. "29.29 . 17.151 . 4 4" 50 cal. R. "29.29 . 17.151 . 4 4" 50 cal. R. "29.29 . 17.1500. 4 4" 50 cal. R. "30.01 . 10.534* 5 3" 50 cal. R. "30.65 . 13.072 . 3 3 50 cal. R. "7.29 . 00 . 16.000. 4 4" 50 cal. R. "7.29 . 00 . 16.000. 4 4" 50 cal. R. "7.29 . 00 . 15.022* 5 3" 50 cal. R. "7.29 . 00 . 12.022* 5 3" 50 cal. R. "7.29 . 00 . 12.022* 5 3" 50 cal. R. "7.29 . 00 . 12.022* 5 3" 50 cal. R. "7.29 . 00 . 12.022* 5 3" 50 cal. R.
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Horse Power	29,65	.18,77	. 18,50	† 7,5(24.3315,889	2,4,8,0,0,0,8,2,0,0,0,0,0,0,0,0,0,0,0,0,0,0		16,00 16,00 17,00	0.83.15,52 9.14.1424 9.14.1424 9.57.17,00 9.57.17,00 0.06.13,07 0.06.13,07 0.00.16,00 9.90.12,62 9.90.17,33 1.27.244 9.90.10,00 9.90.12,62 9.90.17,33
Speed Knots	2.20.	1.91.	2.80.	0.52.	4.33.	16.65. 5 16.45. 4 19.91. 8 16.75. 0 16.65. 1 16.41. 1 21.12. 8		29.62 † 16 28.45 † 16 28.13 † 18 29.59 † 10 29.63 † 18 29.63 † 18 29.63 † 18 29.63 † 18 29.63 † 18 29.63 † 18 29.63 † 18 29.64 † 18 29.65 † 18	20.83. 29.14. 29.29.29.29.29.29.29.29.29.29.29.29.29.2
	0503' 11"22.2029,658.	7"2	1"22.8018,509	30. 354' 10"20.52. † 7,50010 5" 50 cal. B.	1"2	10,		00%	10,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Length	503′ 1	405,	50413	354' 1	.423′	308, 308, 308, 319, 319, 423,		305, 250, 305, 305, 305, 305, 305, 305, 305, 3	293 10". 305. 3". 305. 3". 293. 10". 293. 10". 293. 10". 305. 3". 305. 3". 305. 3". 293. 10". 293. 10".
å	680	2154	7,350.	3,430	3,750.	Chattanooga 3,200 Cleveland 3,200 Cleveland 3,188 Denver 5,200 Des Moines 3,200 Galveston 3,200 Raleigh 3,750		036. 420. 420. 420. 420. 420. 420. 420. 420	742.,014.,0900.,142.,150.,142.,142.,142.,142.,142.,142.,142.,142
Displac	San Diego13,68	9,21	7	:	:	**************************************		:::::::::::::::::::::::::::::::::::::::	100 100 17 17 7 7 7 7 7 7 110 110 110 110 110 110 110 110 110 11
				i	am	oga ti		y	nnes . nn . * Ma
	Diego	Brooklyn	Columbia	Albany	Birmingham	nttano velanc cinnal nver. Moir vestor eigh.		Aylwin. 1 Bainbridge Balach 1 Barry 1 Barry 1 Barry 1 Barry 1 Cassin 1 Canneey 1 Conyngham 1 Cummings 1 Dale. 1 Decatur	Drayton Durean Durean Errieson Fanning Jacob Jones Jarvis Jerkins McDougal McDougal Nicholson O'Brien Parker Parker Parker
	San	Bro	Col	Alb	Bir	SE S		PACCOCO BEE BAY	TOBE PERSONAL PROPERTY OF THE

LISTS OF VESSELS IN THE UNITED STATES NAVY IN FULL COMMISSION—Cont'd

<u> </u>						ONITED STATES NAVY		
In com- mission	July 19/02	26/15June 21/02	4/16 10/02Dec. 17/02	20/10. Mar. 23/11 4/15. 29/15. July 23/15 12/15. 15/01. Oct. 21/02	11/15Aug. 7/15	20/10. May 23/11 20/12. Aug 30/12 20/02. Feb. 21/11 20/00. Cet. 28/09 3/12. Dec. 6/12 15/12. Dec. 6/12 15/12. May 25/12 16/09. Feb. 10/10 14/09. Dec. 3/09 21/10. Dec. 3/09 21/10. Dec. 15/10 21/10. July 22/11 8/10. Mar. 20/11 8/10. Dec. 8/02 19/83. Feb. 20/06	Apr. 11/10	Oct. 16/00
. Launched	\$285,000June 14/02July 19/02	.Aug. 26/15 .Mar. 2/01	.Mar. 4/16. .May 10/02.	Dec. 20/10. D. May 4/15. D. Apr. 29/15. J. June 12/15.		648,000., Sept. 20/10., May 23/11 654,000., Apr. 30/12. Aug. 30/12 654,000., June 23/10., Feb. 21/11 654,000., Juny 20/09., Oct. 28/09 645,700., Apr. 3/12., May 25/12 654,500., June 16/09., Feb. 10/10 654,000., Eeb. 11/11. June 11/11 654,000., Aug. 11/10., Dec. 3/09 654,000., May 11/10., Dec. 16/10 650,000., May 11/10., Dec. 16/10 650,000., May 11/10., Dec. 16/10 650,000., May 11/10., Dec. 16/10 650,000., June 18/10., Mar. 20/11 664,000., June 18/10., Mar. 20/11 665,000., Sept. 19/83., Feb. 20/96 650,000., Nov. 10/00., Oct. 28/02 650,000., Nov. 10/00., Oct. 28/02	.June 21/10	2,650,000May 18/98Oct. 16/00
Contract price hull & machinery	\$285,000.	881,000 Aug. 285,000 Mar.	795,000. Mar. 282,000. May	659,500. Dec. 861,000. May 884,000. Apr. 825,000. June 286,000. Aug.	. 842,000. Feb.	648,000 Sept. 654,000 June 654,000 June 658,000 June 648,000 July 628,000 July 628,000 July 628,000 July 628,000 July 628,000 July 628,000 June 975,000 Sept. 664,000 Nov. 664,000 Sept. 966,000 Nov. 925,000 Nov. 3925,000 Nov. 3	.\$4,377,000.	2,650,000.
Rig and number of funnels	Signal pole, 4 funnels,	wireless pole 2 masts, 4 funnels Signal pole, 4 funnels,		Whetess pole wheress to masts, 4 funnels. 2 masts, 4 funnels. 2 masts, 4 funnels. 2 masts, 4 funnels. Signal pole, 4 funnels.	wireless pole masts, 4 funnels	inne inne inne inne inne inne inne inne	ge masts, 2 funnels\$4,	2 cage masts; 2 funnels abreast
Torpedo R Tubes	²di 2 18″Sign	4 twin 21"2 m 2 18"Sign	4 triple 21"2 m 2 18"Sign	3 twin 18"2 m 4 twin 21"2 m 4 twin 21"2 m 4 twin 21"2 m 2 18"Sign	4 twin 18"2 m	Complements Complements Complements 18%	", su	Line 2 ca
	yers—Cont	E.	E.	ri.		with Redi	t L	s, Second cal. R. F.;
Batteries (Guns)	Destroyer 7.; 5 6-pdr. R. F.	F., 5 6-pdr. R.	F., 5 6-pdr. R.	. 6 6-pdr. R. F.		Operating with Rec Monitors L. R.; 44" 50 cal. R. F.; L. R.; 44" 50 cal. R. F.; L. R.; 44" 50 cal. R. F.;	Battleships, 45 cal. B. L. R.; 14 5". R.; 4 3-pdr. saluting.	Battleships, Second 55 cal. B. L. R.; 14 6" 40 cal. R. F.; 50 cal. R. F.; 4 6-pdr, saluting.
Bat	3" 50 cal. R. F.;	4" 50 cal. R. F 3" 50 cal. R. F	l" 50 cal. R. 3" 50 cal. R.	5 3" 50 cal. R. F. 4 4" 50 cal. R. F. 4 4" 50 cal. R. F. 4 4" 50 cal. R. F. 2 3" 50 cal. R. F.	" 50 cal. R. F.	S COCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOC	2" 45 cal. L. R.; 4 3-p	.4 13", 35 cal. B. L. 4 3", 50 cal. R. F.
Horse s Power	1. †8,0002 3"	1,3702	8,000.	14,978* 17,000. 16,091. 17,000. 7,823.	3"29.0515,9844 4" 50 cal.	Detroy 30.48. 14,001*.5 3" 50 cal. 30.41. 11842*.5 3" 50 cal. 32.27. 12.340*.5 3" 50 cal. 32.27. 12.340*.5 3" 50 cal. 32.21. 12.340*.5 3" 50 cal. 31.82. 12.734*.5 3" 50 cal. 31.82. 12.734*.5 3" 50 cal. 32.41. 13.350*.5 3" 50 cal. 30.24. 13.350*.5 3" 50 cal. 30.24. 13.350*.5 3" 50 cal. 30.12. 13,333*.5 3" 50 cal. 30.12. 14.333*.5 3" 50 cal. 30.12. 14.0 cal.	.32,30710 12". B. L. 1	
Speed Length Knots)′ 2″28.91.		3"29.50†1 " 6"29.69.†	0,444,40			9"21.0	0"17.0111,366.
Displace- ment Le	. 420250'	. 1,090315' . 420250'	. 1,111315' . 420250'	742293' 1,090315' 1,060315' 1,150315' 433259'	. 1,050305'	742 . 293' 742 . 293'	20,000518′	11,552374'
	Paul Jones	Porter	Sampson	Trippe 1742. Tucker 1,090. Wadsworth 1,060. Wainwright 1,150. Whipple 433.	Winslow	Ammen 744 Beale 744 Beale 744 Fluster 764 Fluster 764 Identify 764 Ide	North Dakota20,000	Alabama11,552.
	Pa	Pr	St	EE SSS	Wi	A Part Maria Mod Mod Maria Mar	Nort	Alab

† Estimated.

* Main engines only.

* Limit of cost.

LISTS OF VESSELS OF THE UNITED STATES NAVY IN COMMISSION IN RESERVE—Cont'd

Contract price hull & machinery Launched mission		* 4,600,000Sept. 29/04Sept.29/06	. 3,590,000Oct. 11/04Sept.24/06	. 2,885,000July 27/01Dec. 29/02	2,595,000Oct. 4/98Sept.16/01 . 2,250,000Mar. 24/98Feb. 20/00	. 2,250,000. Mar. 24/98. May 15/00	. 3,990,000. Aug. 27/04. June 2/06	. 3,733,600Oct. 7/04July 1/07	. 3,405,000Nov. 10/04May 12/06	3,222,810Oct. 26/93July 15/96	. 3,405,000. May 17/04. Feb. 19/06	. 3,590,000Apr. 5/04May 7/06	r	3,780,000. Apr. 25/03. Jan. 19/05 3,775,000. Sept. 12/03. Apr. 18/05 3,890,000. Aug. 22/03. Mar. 9/05 3,750,000. July 21/04. Jan. 27/08 4,035,000. Mar. 18/05. Aug. 7/06 \$3,885,000. Apr. 18/03. Feb. 23/05
Torpedo Rig and number of Tubes funnels	-Cont'd	4 21", subm2 cage masts, 3 funnels. * 4,600,000Sept. 29/04Sept.29/06	4 21", subm2 cage masts, 3 funnels 3,590,000Oct. 11/04Sept.24/06	2 18", subm2 cage masts, 3 funnels., 2,885,000July 27/01Dec. 29/02			4 21", subm, 2 cage masts, 3 funnels., 3,990,000Aug. 27/04June	4 21", subm2 cage masts, 3 funnels	4 21", subm2 cage masta, 3 funnels	1 military mast, 1 cage mast, 2 funnels	4 21", subm2 cage masts, 3 funnels	4 21", subm2 cage masts, 3 funnels 3,590,000Apr.	22	2 18", subm 1 military mast, 1 cage 2 18", subm 1 military mast, 1 cage mast, 4 funnels 2 18", subm 1 military mast, 1 cage mast, 4 funnels 2 18", subm 1 military mast, 1 cage mast, 4 funnels 4 21", subm 1 military mast, 1 cage mast, 4 funnels 2 18", subm 1 military mast, 1 cage mast, 4 funnels 2 18", subm 1 military mast, 1 cage mast, 4 funnels
Batteries (Guns)	Battleships, Second Line-Cont'd	R; 12 7" 45 cal. B. L. R; 8 8" 45 cal. B. L. R; 12 7" 45 cal. B. L. R.; 18 3" 50	4 12" 40 cal. B. L. R.; 8 8" 45 cal. B. L. R.; 12 6" 50 cal. B. L. R.; 12 3" 50	cal. K. F.; 4 0-pdr. saluting. 12" 40 cal. B. L. R.; 16 6" 50 cal. B. L. R.; 6 3" 50 cal. R. F.; 4 3-pdr. salut-	8. 4 13" 35 cal. B. L. R.; 14 6" 40 cal. R. F.; 4 3" 50 cal. R. F.; 4 6-ode. saluting. 4. 4 13" 35 cal. B. L. R.; 4 6" 35 cal. B. L. R.; 4 6" 50 cal. B. L. R.; 4 6-ode. salut. R.; 18 5" 40 cal. R. F.; 4 6-ode. salut.	4 13" 35 cal. B. L. R.; 4 8" 35 cal. B. L. R.; 18 5" 40 cal. R. F.; 4 6-pdr. salut-	Mg. 45 cal. B. L. R.; 8 8" 45 cal. B. L. R.; 8 R.; 12 7" 45 cal. B. L. R.; 18 3" 50	cal. K. F.; 4 0-par. saluting. 4 12" 40 cal. B. L. R.; 8 8" 45 cal. B. L. R.; 12 6" 50 cal. B. L. R.; 12 3" 50 cal.	K. F.; 4 0-pdr. saltung. 4 12" 40 cal. B. L. R.; 8 8" 45 cal. B. L. 4 R.; 12 6" 50 cal. B. L. R.; 12 3" 50 cal. D. F. 2 2 cd. 8" 11. R.; 12 3" 50 cal.	4 13" 35 cal. B. L. R.; 8 8" 35 cal. B. L. R.; 12 3" 50 cal. R. F.; 4 6-pdr. salut-	4 12" 40 cal. B. L. R.; 8 8" 45 cal. B. L. R.; 12 6" 50 cal. B. L. R.; 12 3" 50 cal.	3"19.0123,4684 K. T.; # c-par. sautung. R.; 12 6". Stor.l. B. L. R.; 8 8". 45 cal. B. L. R.; 12 6". Stor.l. B. L. R.; 12 3". 50 cal. R. F; 4 6-pdr. saluting.	Armoured Cruisers	4 8" 45 cal. B. L. R.; 14 6" 50 cal. B. L. 2 R.; 18 3" 50 cal. R. F.; 4 3-pdr. salute. 4 8" 45 cal. B. L. R.; 14 6" 50 cal. B. L. 2 R.; 15 40 cal. B. L. 2 R.; 15 40 cal. B. L. 2 R.; 15 40 cal. B. L. 4 10" 40 cal. B. L. R.; 16 6" 50 cal. B. L. 4 8" 45 cal. B. L. R.; 14 6" 70 cal. B. L. 4 8" 45 cal. B. L. R.; 14 3-pdr. salute. 4 8" 45 cal. B. L. R.; 14 3-pdr. salute.
Displace- ment Length Knots Power		Connecticut16,000456' 4"18.7820,5254	Georgia16,000441' 3"19.2625,4634	Maine12,500393' 11"18.0015,8414	Illinois11,552375' 4"17.4512,3184 Kearsarge11,520375' 4"16.8211,9544	Kentucky11,520375' 4"16.9012,3184	Louisiana16,000456' 4"18.8221,3504	Nebraska14,948441' 3"19.0621,9114	New Jersey14,948441' 3"19.1823,5704	Oregon10,288351' 2"16.7911,1114	Rhode Island 14,948 441' 3" 19 . 01 20,627	Virginia14,948441' 3"19.0123,4684		Colorado

LISTS OF VESSELS OF THE UNITED STATES NAVY IN COMMISSION IN RESERVE-Cont'd

In com- mission	2,740,000Jan. 23/04Oct. 17/05 2,825,000Sept. 10/04Dec. 6/06	6/05Aug. 18/06 2/91Aug. 1/93	.5/85Apr. 17/89	26/07Apr. 25/08	4/96Mar. 18/98	2/03Jan. 30/04 24/02Sept.23/03	291,000. June 21/02. May 20/03	24/00Sept. 5/03 27/00Sept. 4/02	286,000Aug. 15/01Sept.11/02 286,000Aug. 15/01Dec 31/02	227,500July 16/98Mar. 22/99	7/83Apr. 23/95 28/91Feb. 13/93		8/13Feb. 11/15 7/00Apr. 14/03	9/10Nov. 18/10	Mar. 5/03
Launched	n. 23/04 pt. 10/04			ne 26/07			ne 21/02.	c. 24/00 t. 27/00	ug. 15/01	ly 16/98.	ne 7/83 rr. 28/91				v. 24/00,
Contract price hull r machinery L	2,740,000Jan. 23/04Oct. 2,825,000Sept. 10/04Dec.	2,740,000May 2,985,000Dec.	889,000Dec.	1,688,000 June 674,000 Aug.	1,429,215 Dec.	1,041,900 June 291,000 Apr.	1,000.Ju	281,000. Dec. 285,000. Oct.	286,000. Aug.	7,500Ju	§June 1,628,950Apr.		\$777,500Nov. 281,000Nov.	610,000Apr.	962,000Nov. 24/00Mar.
Con price				1,68	4.4		29	288	28.	22		VARY	\$777	61(96%
mber of	ists, 4 fun sts, 4 fun	sts, 4 fun sts, 3 fun	unnels	nasts	sts, 2 fun	ınnels funnels,	funnels,	funnels,	funnels, e funnels	`	mast, 1 fun- mast, 1 fun-	ORDINARY	nels funnels,	nels	st, 1 fun- r five mo
Rig and number funnels	2 military masts, 4 fun- nels 2 military masts, 4 fun- nels	2 military masts, 4 fun- nels 2 military masts, 3 fun- nels	Schooner, 2 funnels	funnels, 2 mastsSchooner, 2 funnels.	2 military masts, 2 fun-	.Schooner, 2 funnels Signal pole, 4 funnels,	wireless pole Signal pole, 4 funnels,	Signal pole, 4 funnels	wheress pole Signal pole, 4 funnels, wireless pole Signal pole, 4 funnels		1 military mast, 1 fun- nel 1 military mast, 1 fun- nel	NI NO	18" 2 masts, 4 funnels Signal pole, 4 funnels, wireless nole	2 masts, 3 funnels	ion of \$3,178,046 for five mo
	2 2	2 mi ne 2 mi	Schc	L4 fur		Scho	wi Sign	Sign	Sign Wi Wi Sign		1 mi	COMMISSION	Signs	2 ma	1 mil nel n of \$3,1
Torpedo Tubes			20	Class 2 21", subm4 funnels, 2 mastsSchooner, 2 funnels	2 18", subm.	2 18"	2 18"	2 18". 2 18".	2 18"	2 18" White-	near .		4 twin 18". 2 18"	3 twin 18".	cal. R. F.;
	First Class al. R. F.;	F.; B. L Jute.	nd Class	rd Class F.; 2			2	22	2 2	Boat 2	. : :	NAVY			F.; of an apj
	Cruisers, First C. 450 cal. B. L. R.; 183" 50 cal. R. F.; 450 cal. R. F.; 184" 50 cal. B. L. R.; 183" 50 cal. R. F.; 45-pdr. saluting.	022.1327,484.14° 0 cat. B. L. K.; 18 3" 50 cat. R. F.; 4-3-pdr. saluting. 0"21.0017,40148", 45 cat. B. L. R.; 10 5" 50 cat. B. L. R.; 8 3" 50 cat. R. F.; 4-3-pdr. salutte.	Cruiser, Second C. F.; 9 6-pdr. R. F.; added	Cruisers, Third C 1726.52.28,16825.750 call B. L. R.; 6 3".50 call R. F.; 6".18.445450.84", 40 cal. R. F.; 4 3-pdr. R. F. 10".19.06558444", 40 cal. R. F. ? 3-pdr. R. F.	3-pdr. R	6-pdr. R. F. Destroyers R. F.	R.F.	2. F.	7. F.	Torpedo I	Monitors 9"10.50. † 1,6004 10" 30 cal. B. L. R.; 2 4" 40 cal. R. F.; 11"13.60 5,2442 12" 35 cal. B. L. R.; 2 10" 30 cal. B. L. R.; 6 6-pdr. R. F.	STATES NAVY IN		Monitor	0 .
Batteries (Guns)	Cruisers, R.; 18 3" 50 c	R.; 18 3" R.; 10 5' R. F.; 4	Cruiser, 9 6-pdr. R	Cruisers, R.; 6 3" 50 c. 4 3-pdr. R. F.	L. R.; 2	al. B. L. R.; 8 R. F.; 6 6-pdr.]	6 6-pdr. J	5 6-pdr. R. F.	50 cal. R. F.; 6 6-pdr. R. F. 50 cal. R. F.; 6 6-pdr. R. F.	T0	R.; 2 4" R.; 2 10"	UNITED S	•	,	4 4"
Batter	al. B. L. saluting.	al. B. L. saluting.	al. R. F. rily; 4 . F.	I. B. L. R. F. I. R. F.;	cal. B. 1	cal. B. 1 I. R. F.;	50 cal. R. F.; 6 6-pdr.	. R. F.;	I. R. F.;	F	al. B. L. al. B. L. dr. R. F.	THE UN	표.표	R. F.	40 cal. B. L. R.; pdr. R. F. ‡ Purchase price.
	4 3-pdr. 4 3-pdr. 4 3-pdr. 4 3-pdr.	4 3-pdr. 8", 45 c. R.; 8 3'	2".18.00. 9,000.14 5" 40 cal. R.; temporarily; 3-pdr. R. F.	5" 50 cc 2 3-pdr. 4" 40 ca 4" 40 ca	R. F. 0 5" 50	5″ 50 ″ 50 ca	3" 50 ca	2". 28.32. † 7,9502 3" 50 cal. R. F.	3" 50 ca 3" 50 ca	5,6004 6-pdr. R.	10" 30 c 2 3-pdr. 12" 35 c R.; 6 6-p	OF	3" + 29.00. +16,0004 4" 50 cal. R. 3"28.41.† 8,4007 6-pdr. R. F.	11,6685 3" 50 cal. R.	12" 40 ca 2 6-pdr.] / : ‡Pur
Horse Power	24,5041	7,4841 17,4014	9,0001	8,1682 5,4508 5,5844	7,5001	5,42410 8,4562 3	9,1192 3"	8,4007	8,300*.2 3" 8,6082 3"	5,6004	1,6004	VESSELS	,40004	,6685	,0042 ted.
Speed Knots	6"22.0427,507.	21.00.1	18.00	1"26.522 6"18.44	20.00	6"16.58 8"29.02	8"28.04	28.03. † 28.32. †	6"29.58	6"30.13	10.50. †	OF	9.00.†16 8.41.†	9.76 11	3.04 2,00 † Estimated
Length				3, 1" 9, 6" 9, 10"	4' 5" †						2′ 9″	LISTS	3"+2	, 10" 2	, 1"1
Displace- ment I	9,700426'	8,150384	4,500342'	3,750423' 2,072269'	3,430, .354'	408248	408248'	400246° 420250′	483, .259, 433, .259,	275213'	3,990262' 9"10.50. † 1,600 4,084260' 11"13.60 5,244		1,072305° 400246°	742293' 10"29.76	3,225255' 1"13.04 2,0042 12" 40 cal. B. L. gines only. † Estimated. / ‡ Purchase pr
Ä,										:				:	3,22525; Main engines only.
	Charleston Milwaukee.	Saratoga	Chicago	Chester Marblehead. Montgomery	New Orleans	Lacoma Hopkins	Hull	Macdonough Perry	Truxtufi	Farragut	Amphitrite. Monterey		Downes Lawrence	Perkins	Tonopah
	O Z i	ν η η η η η η η η η η η η η η η η η η η	Θ	C AR	Ž E	H	H.	Pe	Tr	Fa	Am		Do	Per	Tor

LISTS OF VESSELS OF THE UNITED STATES	NAVY IN COMMISSION IN ORDINARY—Con'd
Displace- Speed Horse	Contract Torpedo price hull In com-
ment Length Knots Power Batteries (G	uns) Tubes price hull In com- uns & machinery Launched mission
	do Boats
Bailey '280205' 0"3020 † 5.000 4 6-pdr. R. I	head. Long.
The second of th	head.
Barney 175157' 0"29.04. † 3,9203 1-pdr. R. I	head. Long.
Biddle 175157′ 0″28.57. † 3,9103 1-pdr. R. J	head, Long.
, Blakely 196175' 1"25.58 3,0003 1-pdr. R. I	7. 3 18" White 159,400Nov. 22/00Dec. 27/04 head. Long.
Dahlgren 146147′ 0″30.00 4,2004 1-pdr. R. I	head, Long.
De Long 196175' 1"29.52. † 3,0003 1-pdr. R. F	F. 3 18" White 159,400Nov. 23/00Oct. 27/02 head. Long.
Dupont 165175′ 0″28.58. † 3,0004 1-pdr. R. I	head. Long.
Goldsborough 250198' 0"27.40 5,8504 6-pdr. R. H	7. 2 18" White 214,500 July 29/99 April 9/08 head. Long.
Morris 105138' 3"24.00 1,7503 1-pdr. R. F	head. Long. 18' White-head. Long. 85,000. Apr. 13/98. May 11/98
Shubrick 209175' 0"26.07 3,0003 1-pdr. R. I	
Thornton 200175' 0"24.88 3,0003 1-pdr. R. I	head. Long. 3 18" White- head. Long. 129,750. May 15/00. June 9/02
Tingey 165175' 0"24.94 3,0003 1-pdr. R. F	head. Long. 138" White-head. Long. 168,000. Mar. 25/01. Jan. 7/04
† Estimated. Abbreviations: B. L. R.—Breech-loadin	ng rifle; R. F.—Rapid-fire gun; cal.—caliber; Subm.—submerged.
OTHER VESSELS IN COMMISSION	VESSELS UNDER CONSTRUCTION OR AU-
Submarines.—39.	THORIZED Dis- Per cent.
Gunboats.—19, ranging in displacement from 190 to 1,486 tons; 2 in reserve.	ment tion
Fuel Ships.—19, ranging in displacement from 4,950 to	
19,360 tons; one in reserve. CONVERTED YACHTS.—5.	Idaho (No. 42)
Tugs.—47; one in reserve. Tenders to Torpedo Boats.—5.	Mississippi (No. 41) 32,000 47.4 New Mexico 32,000 0.0
RECEIVING SHIPS.—11; used also as prison ships, or sailing	Tennessee
ships for training purposes.	Destroyers
Special Types.—8. Transports.—3.	Allen
VESSELS OUT OF COMMISSION	Rowan 1,126 90.0 Shaw 1,110 36.3
BATTLESHIPS	Wilkes. 1,110. 76.3 Caldwell. 0.0
Vessel Displacement Vessel Displacement	Craven
Indiana	Gwin
CRUISERS, SECOND CLASS	Conner 6.5 Stockton 6.6 Manley 13.8
Olympia	
CRUISER, THIRD CLASS	Fuel ship, Cuyama. 69.4 Supply ship, Bridge 8.500 71.5 Transport, Henderson 10,000 .66.5
Boston *3,000	SUBMARINES
DESTROYER	Per cent. of completion of completion
Mayrant 742 Submarine	VESSEL July 1, 1916 VESSEL July 1, 1916 L-2
Е-2	1.5
Torpedo Boats	L-7
Foote *	L-8
GUNBOATS	L-10
Den Juan de Austria * 1.130 Princeton	M-1
Icla de Litzon T	Schley20.8 O-98.3 N 1 59.5 O-108.3
Newport †	N-2
Congral Alaya1.115	N-3
General Alava1,115 Also fuel ships, hospital ship, and converted yachts.	N-5
and an amount of	100
* Loaned to Naval Militia. † School ship.	N-6. 63.6 O-15. 15.0 N-7. 63.7 O-16. 14.1

THE NAVAL APPROPRIATION LAW

An act, passed by Congress, making appropriations for enlarging the naval service of the United States was approved by President Wilson on August 21, 1916. The appropriations, amounting to \$315,826,843, are the largest in the history of the country. The law provides for a three year building programme of 157 vessels. Sixty-six of these vessels, to be begun as soon as practicable, shall be contracted for or construction shall be started by March 21, 1917. Following are the details of the programme:

INCREASE OF THE NAVY

	Num	ber	Cost of each			
	author-	to be	exclusive of			
Vessels	ized for	begun	armor and			
	3 years	at once	armament.			
	- ,		not to			
			exceed			
Battleships, first-class	10	Δ				
Dattieships, hist-class		4	16 500 000			
Battle cruisers	*** 0		E 000 000			
Scout cruisers	10	4	3,000,000			
Torpedo-boat destroyers						
Fleet submarines	9	*				
Fleet submarines	58	27	700,000			
800 tons displacement		3	1,200,000			
Submarine (Neff system)						
Fuel ships						
Repair ships						
Transports	1		•			
Hospital ships	1	4	+ 2 350 000			
Destruction of the state of the	5		. 2,000,000			
Destroyer tenders	4					
Submarine " (fleet)						
Ammunition ships	2	1	. 2,350,000			
Gunboats.	2	1	860,000			

The sum of \$139,345,287 was authorized to be available until expended, for the first year's building programme as follows:

Construction and machinery	59,000,194
Submarines	8,217,000
Submarine (Neff system)	250,000
	47,110,000
Ammunition for vessels	19,485,500
Total	139,345,287

* Two fleet submarines, previously authorized, are to be completed at once.

† Entire cost not to exceed \$2,350,000.

†Entire cost not to exceed \$2,350,000.

Other important appropriations for increasing the efficiency of the Navy are as follows:

AVIATION: For aviation, to be expended under the direction of the Secretary of the Navy for procuring, constructing, and handling aircraft, including rigid dirigibles, and appurtenances, maintenance of aircraft stations and experimental work in development of aviation for naval purposes, \$3,500,000.

Purchase and manufacture of smokeless powder, \$1,800,000.

Purchase and manufacture of smokeless powder, \$1,800,000.

PROJECTILE PLANT: Toward the erection and equipment of a plant for the manufacture of projectiles, on a site to be selected by the President (to cost when completed not exceeding \$1,411,-222), \$705,611, to be available until expended.

ARMOR PLANT: The Secretary of the Navy is authorized and directed to provide, either by the erection or by purchase of a factory, or both, for the manufacture of armor for the vessels of the Navy; said factory or factories to have an annual capacity of not less than 20,000 tons of armor; to be located at a place or places approved by the General Board of the Navy, with especial reference to considerations of safety in time of war; and the sum of \$11,000,000 is hereby appropriated, to be immediately available.

The Secretary of the Navy shall keep accurate and itemized account of the cost per ton of the product of such factory or featories with in a number of extensive and report the same to Congress in his annual experts.

account of the cost per ton of the product of such factory or factories and report the same to Congress in his annual report.

New BATTERIES FOR SHIPS OF THE NAVY: For liners for eroded

guns, to be available until June thirtieth, nineteen hundred and eighteen, \$100,000.

BATTERIES FOR MERCHANT AUXILIARIES: For batteries for merchant auxiliaries (to cost not exceeding \$3,300,000), to be available until expended, \$1,650,000.

AMMUNITION FOR SHIPS OF THE NAVY: For procuring, producing, preserving, and handling ammunition for issue to ships, \$13,720,000, to be available until expended.

TORPEDGES AND APPLIANCES: For the purchase and manufacture of torpedoes and appliances, to be available until June thirtieth, nineteen hundred and nineteen, \$800,000.

AIR COMPRESSORS FOR DESTROYERS: For the purchase and

manufacture of air compressors and equipment for destroyers. \$195,000.

TORPEDO NETS FOR BATTLESHIPS: For the purchase and manufacture of torpedo nets and equipment, \$480,000.

EXPERIMENTS: For experimental work in the development of

armor-piercing and torpedo shell and other projectiles, fuses, powders, and high explosives, and for other experimental work in connection with the development of ordnance material for

the Navy, \$100,000.

For actual expenses incurred by and in connection with the civilian Naval Consulting Board, \$25,000.

EXPERIMENTAL AND RESEARCE LABORATORY: For laboratory for a continuous control of the control and research work on the subject of gun erosion, torpedo motive and research work on the subject of guin crossion, torpedo motive power, the gyroscope, submarine guins, protection against sub-marine, torpedo and mine attack, improvement in submarine attachments, improvement and development in submarine en-gines, storage batteries and propulsion, aeroplanes and aircraft, improvement in radio installations, and such other necessary work for the benefit of the Government service, including the construction, equipment, and operation of a laboratory and the employment of scientific civilian assistants, to be expended (limit of cost not to exceed \$1,500,000), \$1,000,000.

FOR THE REPAIRS AND PRESERVATION AT NAVY YARDS AND STATIONS: For repairs and preservation at navy yards, coaling depots, coaling plants, and stations, \$1,100,000. Total public works, \$9,450,875.

 Bureau of Navigation.
 \$1,069,400

 Bureau of Maintenance.
 6,402,465

 Bureau of Medicine and Surgery.
 1,187,728

NEW FEATURES OR CHANGES Granting Discharges

'Any person who may hereafter enlist in the Navy for the first time, shall, in time of peace, if he so elects, receive an honorable discharge therefrom, without cost to himself, during the month of June or December, respectively, following the completion of one year's service at sea, providing, however, that at the time, he is not under charges, or undergoing punishment or in debt to the Government. Discharges when so granted, shall not entitle the holder, in case of reenlistment, to the benefits of an honorable discharge strated upon completion of a fits of an honorable discharge granted upon completion of a full enlistment.

The services of postmasters of the second, third, and fourth classes may be utilized in procuring the enlistment of recruits for the Navy and the Marine Corps, and for each recruit accepted for enlistment in the Navy or the Marine Corps, the postmaster procuring his enlistment shall receive the sum of \$5.

Pay for Leave of Absence

Any civilian employee of the Navy Department who is a citizen of the United States and employed at any station outside the continental limits of the United States may, after at least two years' continuous, faithful, and satisfactory service abroad, be granted accrued leave of absence, with pay, for each year of service, and if an employee should elect to postpone the taking of any or all of the leave to which he may be entitled in purpose and the properties of the leave to which he may be entitled in purpose of the properties of

Commission for Establishing New Naval Stations

The President is authorized to appoint a commission of five officers of the Navy not below the rank of commander to investigate and report to Congress as soon as practicable, as to the necessity, desirability, and advisability of establishing an additional navy yard or naval station, on the Atlantic coast south of Cape Hatteras or on or near the United States coast of the Gulf of Mexico or in the Caribbean Sea and on the Pacific coast of the United States. If such navy yards or naval stations be recommended, said report shall designate the most suitable

sites and the estimated costs thereof, together with a detailed sites and the estimated costs thereon, observed with a statement of the reasons for such designation and the nature and scope of the activities for naval purposes of such yards or stations. The commission shall take into consideration all stations. The commission shall take into consideration an strategical and other military considerations as well as all industrial elements necessary for the economical and successful operation of such yards or stations, including local conditions as to labor and material. Said report shall also contain an estimated cost of the necessary buildings, shops, piers, sea walls, and equipment of said yards or stations together with the estimated cost of the necessary buildings, shops, piers, sea walls, and equipment of said yards or stations together with the estimated cost of the necessary buildings.

and equipment of said yards or stations together with the estimated annual cost of maintenance thereof.

This commission shall also investigate and report as to the advisability of establishing submarine and aviation bases on the Atlantic, Gulf of Mexico, and Pacific coasts and other possessions of the United States, and as to the cost and location thereof; also of abolishing any existing navy yard or naval station, and if such action is recommended, to report fully the reasons therefor and the advantages to be obtained thereby.

Naval Academy Appointments

Hereafter in addition to the appointment of midshipmen to the United States Naval Academy, as now prescribed by law, the President is allowed fifteen appointments annually instead of ten as now prescribed by law, and the Secretary of the Navy is allowed twenty-five, instead of fifteen. The latter shall be appointed from the enlisted men of the Navy who are citizens of the United States, and not more than twenty years of age on the date of entrance to the Naval Academy, who shall have served not less than one year as enlisted men on the date of entrance; and who have passed the mental and physical examinations required by law. The Secretary of the Navy is also authorized to permit, not exceeding four Filipinos, to be designated by the Governor General of the Philippine Islands, to receive instruction at the Naval Academy at Annapolis. These Filipinos shall receive the same pay and shall be subject to the same rules as the American midshipmen, but they shall not be entitled to appointment to any commissioned office in the United States Navy by reason of their graduation from the Naval Academy. Hereafter in addition to the appointment of midshipmen to Naval Academy.

Commissioned Personnel

Hereafter the total number of commissioned officers of the Hereafter the total number of commissioned officers of the active list, exclusive of commissioned warrant officers, shall be distributed in the proportion of one of the grade of rear admiral to four in the grade of captain, to seven in the grade of commander, to fourteen in the grade of lieutenant commander, to thirty-two and one-half in the grade of lieutenant, to forty-one and one-half in the grades of lieutenant, to forty-one and one-half in the grades of lieutenant, to forty-one not less that three years' service in that grade before being eligible for promotion to the grade of lieutenant.

Warrant Officers

Hereafter chief boatswains, chief gunners, chief machinists, chief carpenters, chief sail makers, chief pharmacists, and chief pay clerks, on the active list with creditable records, shall, pay cierks, on the active list with redutable records, shall, after six years from date of commission, receive the pay and allowances that are allowed a lieutenant (junior grade), United States Navy, and after twelve years, that of a lieutenant. Warrant officers shall be allowed such leave of absence, with full pay, as is allowed other officers of the United States Navy.

Promotion and Retirement

All promotions to the grades of commander, captain, and rear admiral of the line of the Navy, shall be by selection only from the next lower respective grade upon the recommendation of a board of naval officers.

This board shall consist of nine rear admirals on the active list of the line of the Navy not restricted by law to the performance of shore duty only, and shall be appointed by the Secretary of the Navy.

On and after June thirtieth, nineteen hundred and twenty, no captain, commander, or lieutenant commander shall be promoted unless he has had not less than two years' actual sea service on seagoing ships in the grade in which serving or who is more than fifty-six, fifty, or forty-five years of age, respectively. The qualification of sea service shall not apply to officers restricted to the performance of engineering duty only. Captains, commanders, and lieutenant commanders who become ineligible for promotion on account of age shall be retired

on a percentage of pay equal to two and one-half per cent. of their shore-duty pay for each year of service. The total retired pay shall not exceed seventy-five per cent. of the shore-duty pay they were entitled to receive while on the active list. Hereafter the age for retirement of all officers of the Navy shall be sixtyfour years instead of sixty-two years as now prescribed by law except as stated before. All commissioned officers of the active list of the Navy shall receive the same pay and allowances according to rank and length of service.

Naval Flying Corps

The Naval Flying Corps shall be composed of one hundred and fifty officers and three hundred and fifty enlisted men, commissioned, and distributed in the various grades of the Navy and Marine Corps.

commissioned, and distributed in the various grades of the Navy and Marine Corps.

Officers commissioned for aeronautic duty only shall be eligible for advancement to the higher grades, not above captain in the Navy or colonel in the Marine Corps, without restriction as to sea duty. Such officer must serve at least three years in any grade before being eligible to promotion to the next higher grade. The Secretary of the Navy is authorized to appoint annually for a period of four years, from enlisted men of the naval service, or from citizens in civil life, not to exceed thirty student flyers for instruction and training in aeronautics who shall receive the same pay and allowances as midshipmen at the Naval Academy. Persons so appointed must be not less than seventeen or more than twenty-one years of age, and shall have qualified by examination prescribed by the Secretary of the Navy. In the event of the death of an officer or enlisted man or student flyer of the Naval Flying Corps from wounds or disease, the result of an aviation accident, received while engaged in actual flying in or in handling aircraft, the gratuity to be paid shall be an amount equal to one year's pay, and the amount of pension allowed shall be double that given if injured or killed while not on aviation duty.

NAVAL RESERVE FORCE

A Naval Reserve Force is established, under the Department

A Naval Reserve Force is established, under the Department of the Navy, to consist of six classes, designated as follows; First. The Fleet Naval Reserve.

Second. The Naval Reserve.

Third. The Naval Auxiliary Reserve.

Fourth. The Naval Coast Defense Reserve.

Fifth. The Volunteer Naval Reserve.

Fifth. The Volunteer Naval Reserve.

Sixth. Naval Reserve Force shall be composed of citizens who, by enrolling or by transfer thereto, obligate themselves to serve in the Naval reserve Force shall be composed of citizens who, by enrolling or by transfer thereto, obligate themselves to serve in the Naval Reserve Force may be ordered into active service in the Naval Reserve Force may be ordered into active service in the Navay by the President in time of war or when, in his opinion, a national emergency exists. Members appointed to commissioned grades shall be commissioned by the President alone, and members of such force appointed to warrant grades shall be warranted by the Secretary of the Navy. Officers so warranted or commissioned shall not be deprived of the retainer pay, allowances, or gratuities to which they would otherwise be entitled. Officers shall rank with but after officers of corresponding rank in the Navy.

Enrollment and refurollment shall be for terms of four years, but members shall in time of peace, when no national emergency exists, be discharged upon their own request upon reimbursing the Government for any clothing gratuity that may have been furnished them during their current enrollment. Persons enrolling shall be required to take the oath of allegiance to the United States. When first enrolled, members, except those in the Fleet Naval Reserve, shall be given a provisional grade, in accordance with their qualifications determined by examination. They may thereafter, upon application, be assigned to active service in the Navy for such periods of instruction and transing as may enable them to qualify for and be confirmed in such grade, rank or rating. No member shall be confirmed in such grade, r aid or assistance thereby, shall be punished by a fine of not more

than \$20 or by imprisonment for not more than thirty days or by both such fine and imprisonment.

Fleet Naval Reserve

All former officers of the United States naval service, in-cluding midshipmen, who have left that service under honorable conditions, and those citizens who have been honorably dis-charged from the naval service after not less than one four-year

charged from the naval service after not less than one four-year term of enlistment or after a term of enlistment during minority, and who shall have enrolled in the Naval Reserve Force shall be eligible for membership in the Fleet Naval Reserve.

Men enrolled in this class with less than eight years' naval service shall be paid at the rate of \$50 per annum; those with eight years and less than twelve years shall be paid at the rate of \$72 per annum; and those with twelve or more years' naval service shall be paid at the rate of \$100 per annum, such pay to be considered as retainer pay for the obligation on the part of such members to serve in the Navy in time of war or national emergency. emergency.

Naval Reserve

Members of the Naval Reserve Force who have been or may be engaged in the seagoing profession, and who have enrolled for general service, shall be eligible for membership in the Naval Reserve. No person shall be first enrolled in this class who is less than eighteen or more than thirty-five years of age, nor unless he furnishes satisfactory evidence as to his ability and character; nor shall any person be appointed an officer in this class unless he shall have had not less than two years' experience as an officer on board of lake or occan going vessels. The minimum active service required of members to qualify for confirmation in their rank or rating in this class shall be three months. The minimum active service required for maintaining the efficiency of a member of this class is three months during each term of enrollment. This active service may be in one period or in periods of not less than three weeks each year. The annual retainer pay of members in this class after confirmation period of in periods of not less than three weeks each year. The annual retainer pay of members in this class after confirmation in rank or rating shall be two months' base pay of the corresponding rank or rating in the Navy.

Naval Auxiliary Reserve

Members of the Naval Reserve Force of the seagoing profession who shall have been or may be employed on American vessels of the merchant marine of suitable type for use as naval auxiliaries and which shall have been listed as such by the Navy Department for use in war, shall be eligible for membership in the Naval Auxiliary Reserve. In time of war or during the existence of a national emergency, persons in this class shall be required to serve only in vessels of the merchant ship type, except in cases of emergency, to be determined by the senior officer present, when said officer may, in his discretion, detail them for temporary duty elsewhere as the exigencies of the service may require.

them for temporary duty eisewhere as the exigencies of the service may require.

Officers shall exercise military command only on board the ships to which they are attached and in the naval auxiliary service. The annual retainer pay of members in this class after confirmation in rank or rating shall be for officers, one month's base pay of the corresponding rank in the Navy, and for men, two months' base pay of the corresponding rating in the Navy.

Naval Coast Defense Reserve

Members of the Naval Reserve Force who may be capable of performing special useful service in the Navy or in connection with the Navy in defense of the coast, shall be eligible for membership in the Naval Coast Defense Reserve. Persons may enroll in this class for service in connection with the naval defense of the coast, such as service with coast-defense vessels, torpedo craft, mining vessels, patrol vessels or as radio operators, in various ranks or ratings corresponding to those of the Navy for which they shall have qualified under regulations prescribed by the Secretary of the Navy. He may permit the enrollment in this class of owners and operators of yachts and motor power boats suitable for naval purposes in the naval defense of the coast; and is authorized to enter into contract with the owners of such boats to take over the same in time of war or national emergency upon payment of a reasonable indemnity.

The amount of action service required and the annual retainer shall be the same as the Naval Reserve. Members of the Naval Reserve Force who may be capable of

Volunteer Naval Reserve

This class shall be composed of those members of the Naval Reserve Force who are eligible for membership in any of the others and who obligate themselves to serve in the Navy in any one of these classes without retainer pay and uniform gratuity in time of peace.

Naval Reserve Flying Corps

This class shall be composed of officers and student flyers who have been transferred from the Naval Flying Corps and of enlisted men who shall have been so transferred under the same conditions as those provided by law for enlisted men of the Navy transferred to the Fleet Naval Reserve. Members of the Naval Reserve force, skilled in the flying of aircraft or in their design or building, shall be eligible. The amount of active service required and the annual retainer shall be the same as the Naval Reserve. same as the Naval Reserve.

MARINE CORPS RESERVE

A United States Marine Corps Reserve, to be a constituent part of the Marine Corps, and in addition to the authorized strength thereof, is hereby established under the same provi-sions as those providing for the Naval Reserve Force.

NAVAL MILITIA AND NATIONAL NAVAL VOLUNTEERS

The Naval Militia shall consist of the regularly enlisted militia The Naval Militia shall consist of the regularly enlisted militia between the ages of eighteen and forty-five years, organized as prescribed for the Naval Militia by law, and commissioned officers between the ages of twenty-one and sixty-tour years (Marine Corps branch). The period of enlistment in the Naval Militia shall be three years. An enlisted man who has served honorably for the full term of his enlistment may reënlist for a term of

one, two, or three years, as he may elect.

In case of any emergency, requiring the use of naval forces, in addition to the Regular Navy, the President is authorized to enroll such number of the officers and men of the various branches of the Naval Militia as he may decide is necessary into the National Naval Volunteers, a force created for such

into the National Naval Volunteers, a force created for such purpose.

All persons so enrolled shall be held to service during the continuance of any emergency and during the period of any existing or thereafter ensuing war, unless sooner relieved by order of the President or until reaching the age of sixty-tow years for those in the naval branch and the age of sixty-tow years for those in the Marine Corps branch, upon attaining which ages such persons, respectively, shall be relieved from such enrollment. During the continuance of any such emergency or war any enrolled person who shall fail to obey the call to service of the President may be arrested and compelled to serve, and, in addition thereto, may be tried by court-martial as a deserter and punished as such in such manner as said court-martial may lawfully direct. Any person so enrolled may tender his resignation to, or request his discharge from, the President, who may, in his discretion, accept such resignation or grant such discharge and disenroll such person. No person shall be held against his will to such enrollment for a longer continuous period than three years, except during the pendency or duration

neid against his will to such enrollment for a longer continuous period than three years, except during the pendency or duration of the emergency or of war.

Each commissioned, warrant officer and enlisted man on the active list of the Naval Militia shall receive compensation for his services, referred to hereinafter as retainer pay, except during periods of service for which he may become lawfully entitled to the same pay as an officer of corresponding grade of the United States Navy or Marine Corps, at the following rates per annum namely:

rates per annum, namely:

To officers of or above the naval rank or equivalent rank of

licutenant, \$500;
To officers of the naval rank or equivalent rank of licutenant (junior grade), \$240;
To officers of the naval rank or equivalent rank of ensign,

To warrant officers, \$120; To enlisted men, pay not to exceed \$120. Whenever a member of the Naval Militia who is employed under a department of the Government of the United States attends drills, cruises, or other ordered duty of the Naval Militia, he shall receive the amount of the salary or wages he would have earned when so employed, in addition to the amount provided for by law as a member of the said Naval Militia. Such attendance shall not affect his efficiency rating in said department, nor shall he suffer demotion or loss of position during or at the termination of any naval or military service when ordered upon special or active duty of any kind.

COAST GUARD

Whenever, in time of war, the Coast Guard operates as a part of the Navy in accordance with law, the personnel of that service shall be subject to the laws prescribed for the government of the Navy.

LIGHTHOUSE SERVICE

The President is hereby authorized, whenever in his judgment a sufficient national emergency exists, to transfer to the service and jurisdiction of the Navy Department, or of the War Department, such vessels, equipment, stations, and personnel of the Lighthouse Service as he may deem to the best interest of the country, and after such transfer all expenses connected therewith shall be defrayed out of the appropriations for the department to which transfer is made.

REGULATING COMMERCE

In time of war or threatened war preference and precedence shall, upon demand of the President of the United States, be given over all other traffic for the transportation of troops and material of war, and carriers shall adopt every means within their control to facilitate and expedite the military traffic. And in time of peace shipments consigned to agents of the United States for its use shall be delivered by the carriers as promptly as possible and without regard to any embargo that may have been declared, and no such embargo shall apply to shipments so

MARINE CORPS INSTRUCTION CAMPS

The Secretary of the Navy is authorized to establish and maintain at such places as he may designate, Marine Corps training camps for the instruction of citizens of the United States who make application and are designated for such training; no camps to be in existence for a period longer than six weeks

in each fiscal year, except in time of actual or threatened war; to use Marine Corps and such other Government property as to use Marine Corps and such other Government property as he may deem necessary for the military training of citizens while in attendance at camps. The Quartermaster's Department, United States Marine Corps, is authorized to sell articles of uniform clothing as may be prescribed at cost price to the volunteer citizens. These citizens shall be required to furnish at their own expense transportation and subsistence to and from these camps, and subsistence while undergoing training therein.

COURT OF ARBITRATION

The President is authorized and requested to invite, at an appropriate time, not later than the close of the war in Europe, all the great Governments of the world to send representatives to a conference which shall be charged with the duty of formuto a conference which shall be charged with the duty of formulating a plan for a court of arbitration or other tribunal, to which disputed questions between nations shall be referred for adjudication and peaceful settlement, and to consider the question of disarmament and submit their recommendation to their respective Governments for approval. The President is authorized to appoint nine citizens of the United States, who, in his judgment, shall be qualified for such duty to be representatives of the United States in such a conference. The President shall fix the compensation of said representatives and such secretaries and other employees as may be needed. Two resident sain in the compensation of said representatives and such secretaries and other employees as may be needed. Two hundred thousand dollars, or so much thereof as may be neces-sary, is hereby appropriated and set aside and placed at the disposal of the President to carry into effect the provisions of

disposar of the resident of carry into elect the provisions of this paragraph.

If at any time before the construction authorized by this Act shall have been contracted for there shall have been established, with the cooperation of the United States, an internainstead, with the cooperation of the United States, an interna-tional tribunal competent to secure peaceful determinations of all international disputes, and which shall render unnecessary the maintenance of competitive armaments, then and in that case such naval expenditures as may be inconsistent with the engagements made in the establishment of such tribunal may be suspended, when so ordered by the President of the United

THE ARMY REORGANIZATION LAW

This law, approved June 3, 1916, provides for a more effectual from officers of the grade of colonel of the line of the Regular

The most important provisions of the law are as follows:

COMPOSITION OF THE REGULAR ARMY

The Regular Army of the United States shall consist of sixtyfour regiments of Infantry, twenty regiments of Cavalry, twentyone regiments of Field Artillery, a Coast Artillery Corps, a
General Staff Corps, an Adjutant General's Department, an
Inspector General's Department, a Judge Advocate General's
Department, a Quartermaster Corps, a Medical Department,
a Corps of Engineers, an Ordnance Department, a Signal Corps,
the officers of the Bureau of Insular Affairs, the Militia Bureau,
the detached officers, the detached noncommissioned officers,
the chaplains, and the Regular Army Reserve, the officers and
enlisted men on the retired list, the additional officers, the
professors, the Corps of Cadets, the general Army service detachment, and detachments of Cavalry, Field Artillery, and
Engineers, and the band of the United States Military Academy;
the post noncommissioned staff officers, the recruiting parties,
and unassigned recruits, the service school detachments, the
disciplinary guards the disciplinary organizations and the
Indian Scouts. Hereafter the enlisted personnel of the Regular
Army shall never be below the minimum strength. The total
enlisted force, excluding the Philippine Scouts, and the enlisted
men of the Quartermaster Corps, of the Medical Department,
and of the Signal Corps, and the unassigned recruits, shall
not at any one time, except in the event of actual or threatened
war or similar emergency in which the public safety demands
it, exceed one hundred and seventy-five thousand men. The
unassigned recruits shall at no time, except in time of war,
exceed by more than seven per cent., the total authorized enlisted strength.

The number of general officers of the line now authorized by The Regular Army of the United States shall consist of sixty-

The number of general officers of the line now authorized by law is increased by four major generals and nineteen brigadier generals. Hereafter in time of peace major generals of the line shall be appointed from officers of the grade of brigadier general of the line, and brigadier generals of the line shall be appointed

Army.

The General Staff Corps.—The General Staff Corps shall consist of one Chief of Staff, detailed in time of peace from major generals of the line; two Assistants to the Chief of Staff, who shall be general officers of the line, one of whom, not above the grade of brigadier general, shall be the president of the Army War College; ten colonels; ten lieutenant colonels; fifteen majors; and seventeen captains, to be detailed from corresponding grades in the Army. All officers detailed in the General Staff Corps shall be detailed therein for periods of four years, unless sooner relieved. While serving in the General Staff Corps, officers may be temporarily assigned to duty with any branch of the Army.

may be temporarily assigned to duty with any branch of the Army.

All officers detailed in said corps shall be exclusively employed in the study of military problems, the preparation of plans for the national defense and the utilization of the military forces in time of war, in investigating and reporting upon the efficiency and state of preparedness of such forces for service in peace or war, or on appropriate general staff duties in connection with troops, including the National Guard, or as military attaches in foreign countries, or on other duties, not of an administrative nature, on which they can be lawfully and properly employed. No officer shall be detailed as a member of the General Staff Corps, other than the Chief of Staff and the general officers herein provided for as assistants to the Chief of Staff, except herein provided for as assistants to the Chief of Staff, except here in provided for as assistants to the Chief of Staff, except here say that the supervising of the General Staff Corps, nor any officer not a member of said corps, shall be detailed as a member thereof. The War College shall remain fully subject to the supervising, coördinating, and informing powers conferred by law upon members of the General Staff Corps.

INCREASE TO BE MADE IN FIVE INCREMENTS.—The increases in the compressioned and enjisted personnel.

INCREASE TO BE MADE IN FIVE INCREMENTS.—The increases and promotions in the commissioned and enlisted personnel of the Regular Army shall be made in five annual increments,

beginning July first, nineteen hundred and sixteen.

In the event of actual or threatened war or similar emergency In the event of actual or threatened war or similar emergency in which the public safety demands it the President is authorized to immediately organize the entire increase authorized, or so much thereof as he may deem necessary, and when, in the judgment of the President, war becomes imminent, all of said organizations that shall then be below the maximum enlisted strength authorized by law shall be raised forthwith to that strength, and shall be maintained as nearly as possible thereat so long as war, or the imminence of war, shall continue.

Vacancies in the grade of second light apart, caused by the

so long as war, or the imminence of war, shall continue.

Vacancies in the grade of second lieutenant, caused by the increases due to this Act, in any fiscal year shall be filled by appointment in the following order: (1) Of cadets graduated from the United States Military Academy; (2) under the provisions of existing law, of enlisted men, including officers of the Philippine Scouts, whose fitness for promotion shall have been determined by competitive examination; (3) of members of the Officers' Reserve Corps between the ages of twenty-one and twenty-seven years; (4) of commissioned officers of the National Guard between the ages of twenty-one and twenty-seven years: (5) of such honor graduates, between the ages. seven years; (5) of such honor graduates, between the ages of twenty-one and twenty-seven years, of distinguished colleges as are entitled to preference by general orders of the War Department; and (6) of candidates from civil life between the ages of twenty-one and twenty-seven years; and the President is authorized to make the necessary rules and regulations to carry these provisions into effect. Enlisted men of the Regular Army who have completed one year's service with an organiza-tion may become candidates for vacancies in the grade of second lieutenant created by increases.

lieutenant created by increases.

ENLISTMENTS IN THE REGULAR ARMY.—All enlistments in the Regular Army shall be for a term of seven years, the first three years to be in the active service with the organizations of which those enlisted form a part and, except as otherwise provided, the last four years in the Regular Army Reserve. At the expiration of three years' continuous service with such organizations, any soldier may be reënlisted for another period of seven years, as above provided for, in which event he shall receive his final discharge from his prior enlistment. After the expiration of one year's honorable service any enlisted man serving within the continental limits of the United States whose commander shall report him as proficient and sufficiently trained may, in the discretion of the Secretary of War, be furloughed to the Regular Army Reserve, but no man furloughed to the reserve shall be eligible to reënlist in the service until the expiration of his term of seven years. No person under the age of

the Regular Army Reserve, but no man furnoughed to the reserve shall be eligible to reënlist in the service until the expiration of his term of seven years. No person under the age of eighteen years shall be enlisted or mustered into the military service of the United States without the written consent of his parents or guardians, provided that such minor has such parents or guardians entitled to his custody and control. The President is authorized to utilize the services of postmasters of the second, third, and fourth classes in procuring the enlistment of recruits for the Army, and for each recruit accepted, the postmaster procuring his enlistment shall receive the sum of \$5. In addition to military training, soldiers while in the active service shall be given the opportunity to study and receive instruction upon educational lines of such character as to increase their military efficiency and enable them to return to civil life better equipped for industrial, commercial, and general business occupations. Civilian teachers may be employed to aid the Army officers in giving such instruction, and part of this instruction may consist of vocational education either in agriculture or the mechanic arts. The Secretary of War, with the approval of the President, shall prescribe rules and regulations for conducting the instruction adall have the power at all times to suspend, increase, or decrease the amount of such instruction to suspend, increase, or decrease the amount of such instruction offered as may be consistent with the requirements of military instruction and service of the soldiers.

FINAL DISCHARGE OF ENLISTED MEN.—No enlisted man in the Regular Army shall receive his final discharge until the termination of his seven-year term of enlistment except upon reënlistment as provided by law for discharge prior to expiration reenistment as provided by law for discharge prior to expiration of term of enlistment, but when an enlisted man is furloughed to the Regular Army Reserve his account shall be closed and he shall be paid in full to the date such furlough becomes effective, including allowances for discharged soldiers. When by reason of death or disability of a member of the family of an enlisted man occurring after his enlistment members of his family become desirable when the form of the family of the family become desirable with the family becomes desirable with the family of the family becomes desirable with the family of the family becomes desirable with the family of the family of the family of the family becomes desirable with the family of come dependent upon him for support, he may, in the discretion of the Secretary of War, be discharged from the service of the United States or be furloughed to the Regular Army Reserve, upon due proof being made of such condition. When an enlisted man is discharged by purchase while in active service

he shall be furloughed to the Regular Army Reserve, unless, in the discretion of the Secretary of War, he is given a final discharge from the Army.

THE REGULAR ARMY RESERVE

The Regular Army Reserve shall consist of, first, all enlisted men now in the Army Reserve or who shall hereafter become members; second, all enlisted men furloughed to or enlisted in the Reserve; and third, any person holding an honorable discharge from the Regular Army with character reported at least good who is physically qualified for the duties of a soldier and

good who is physically defined to the detect of a solution not over forty-five years of age who enlists in the Regular Army Reserve for a period of four years.

The President may summon the Regular Army Reserve or any part thereof for field training for a period not exceeding any part thereof for field training for a period not exceeding fifteen days in each year, the reservists to receive travel expenses and pay at the rate of their respective grades in the Regular Army during such periods of training; and in the event of actual or threatened hostilities he may mobilize the Regular Army Reserve in such manner as he may determine, and thereafter retain it, or any part thereof, in active service for such period as the conditions demand. The members shall be paid semiannually at the rate of \$24 a year while in the reserve.

The Officers' Reserve Corps.—For the purpose of securing a reserve of officers available for service as temporary officers in the Regular Army, there shall be organized an Officers' Reserve Corps.

Reserve Corps.

No member shall be subject to call for service in time of peace, and whenever called upon for service shall not, without his consent, be so called in a lower grade than that held by him in said reserve corps.

The President alone shall be authorized to appoint and commission as reserve officers in the various sections of the Officers' Reserve Corps, such citizens as, upon examination, shall be found physically and morally qualified to hold such commis-

INSTRUCTION OF OFFICERS.—The Secretary of War is authorized to order reserve officers to duty with troops or at field exercises, or for instruction, for periods not to exceed fifteen days in any one calendar year, and while so serving such officers shall receive the pay and allowances of their respective grades in the Regular Army.

THE PERSPECT OFFICERS.—The Secretary of War is authorized to the secretary of t

shall receive the pay and allowances of their respective grades in the Regular Army.

The Reserve Officers' Training Corps, —The President is authorized to establish and maintain, in civil educational institutions, a Reserve Officers' Training Corps, which shall consist of a senior division organized at universities and colleges requiring four years of collegiate study for a degree, including State universities and those State institutions that are required to provide instruction in military tactics, in addition to practical instruction in agriculture and the mechanic arts, and a junior division organized at all other public or private educational institutions, except that units of the senior division may be organized at those essentially military schools which do not confer an academic degree but which, as a result of the annual inspection of such institutions by the War Department, are specially designated by the Secretary of War as qualified for units of the senior division.

The President may, upon the application of any State institution, establish and maintain at such institution one or more units of the Reserve Officers' Training Corps. No such unit shall be established or maintained at any such institution until an officer of the Army shall have been detailed as professor of military science and tactics, nor until such institution shall maintain under military instruction at least one hundred physically fit male students.

The President may, upon the application of any established educational institution in the United States, the authorities of educational institution in the United States, the authorities of which agree to establish and maintain a two years' elective or compulsory course of military training as a minimum for its physically fit male students, which course when entered upon by any student shall, as regards such student, be a prerequisite for graduation, establish and maintain at such institution one or more units of the Reserve Officers' Training Corps.

Eligibility to membership shall be limited to students of institutions in which units of such corps may be established who are citizens of the United States, who are not less than fourteen years of age, and whose bodily condition indicates that they are physically fit to perform military duty, or will be so on arrival at military age.

The President is authorized to detail such numbers of officers of the Army, not above the grade of Colonel, for duty as professors and assistant professors of military science and tactics

at institutions where units of the Training Corps are main-tained. The total number of active officers so detailed shall not exceed three hundred and they shall have had five years'

not exceed three hundred and they shall have had live years commissioned service in the Army.

The Secretary of War is authorized to issue to institutions at which units of the Reserve Officers' Training Corps are maintained such public animals, arms, uniforms, equipment, and means of transportation as he may deem necessary, and to forage at the expense of the United States public animals so issued. He is also authorized to maintain camps for the further variable instruction of the manbers for a period put longer. Issued. He is also authorized to maintain camps for the further practical instruction of the members for a period not longer than six weeks in any one year, except in time of actual or threatened hostilities; to transport members of such corps to and from such camps at the expense of the United States so far as appropriations will permit; to subsist them at the expense of the United States while traveling to and from such camps and while remaining therein.

Any physically fit male citizen of the United States between

Any physically fit male citizen of the United States, between Any physically fit male citizen of the United States, between the ages of twenty-one and twenty-seven years, who shall have graduated from any educational institution at which an officer of the Army was detailed as professor of military science and tactics, and who, while a student there, completed courses of military training, shall, after satisfactorily completing addi-tional military training as shall be subscribed, be eligible for appointment to the Officers' Reserve Corps and as a temporary additional second lightenant.

additional second lieutenant.

tional military training as shall be subscribed, be eligible for appointment to the Officers' Reserve Corps and as a temporary additional second lieutenant.

TRAINING CAMPS.—The Secretary of War is authorized to maintain camps for the military instruction and training of such citizens as may be selected, upon their application and under such terms of enlistment and regulations as may be prescribed by the Secretary of War; to use, for the purpose of maintaining said camps and imparting military instruction and training thereat, such arms, equipments, and transportation belonging to the United States as he may deem necessary; to furnish, at the expense of the United States, uniforms, subsistence, transportation by the most usual and direct route; and medical supplies to persons receiving instruction at said camps during the period of their attendance thereat, to authorize such expenditures, from proper Army appropriations, as he may deem necessary, and to sell to persons receiving instruction at said camps, at cost price plus ten per cent., quartermaster and ord-nance property, the amount sold to any one person to be limited to that which is required for his proper equipment.

The Enlisted Reserve of enlisted men for military service with the Engineer, Signal, and Quartermaster Corps and the Ord-nance and Medical Departments of the Regular Army, an Enlisted Reserve Corps, to consist of such number of enlisted men of such grade or grades as may be designated by the President from time to time, is authorized. There may be enlisted, for a period of four years, citizens of the United States, or persons who have declared their intentions to become citizens, who are between the ages of eighteen and forty-five years.

The Secretary of War may order enlisted men of instruction or training for periods not to exceed fifteen days in any one calendar year. With the consent of the enlisted men shall receive pay and allowances of their respective grades, but only when ordered into active service, including the time required fo

THE MILITIA

The militia of the United States shall consist of all able-bodied male citizens of the United States and all other able-bodied males who have or shall have declared their intention to become citizens of the United States, who shall be more than, eighteen years of age and, except as hereinafter provided, not more than forty-five years of age, and said militia shall be divided into three classes, the National Guard, the Naval Militia, and the Unorganized Militia.

COMPOSITION OF THE NATIONAL GUARD.—The National Guard shall consist of the regularly enlisted militia, organized, armed, and equipped and of commissioned officers between the ages of twenty-one and sixty-four years.

EXEMPTIONS FROM MILITIA DUTY.—The Vice President of

the United States; the officers, judicial and executive, of the the United States; the officers, judicial and executive, of the Government of the United States and of the several States and Territories; persons in the military or naval service of the United States; customhouse clerks; persons employed by the United States; customhouse clerks; persons employed by the United States; ustomhouse clerks; persons employed in the transmission of the mail; artificers and workmen employed in the armories, arsenals, and navy yards of the United States; pilots; mariners actually employed in the sea service of any citizen or merchant within the United States, shall be exempt from militia duty without regard to age, and all persons who because of religious belief shall cleim exemption from military service, if the conscientious holding of such belief by such person shall be exempt from militia service in any capacity that the President shall declare to be noncombatant.

NUMBER OF THE NATIONAL GUARD.—The number of enlisted men of the National Guard shall be for each State, in the proportion of two hundred men for each Senator and Representative in Congress from such State, and a number to be determined by the President for each Territory and the District of Columbia, and shall be increased each year in the proportion of not less than fifty per cent until a total peace strength of not less than eight hundred enlisted men for each Senator and Representative in Congress shall have been reached. In States which have but one Representative in Congress such increase which have but one Representative in Congress such increase Government of the United States and of the several States and

Representative in Congress shall have been reached. In States which have but one Representative in Congress such increase shall be at the discretion of the President.

CHIEFS OF STAFF.—The President may detail one officer of the Regular Army as Chief of Staff and one officer of the Army or the National Guard as assistant to the Chief of Staff of any division of the Guard. In order to secure the prompt mobilization of the Guard in time of war or other emergency, the President may, in time of peace, detail an officer of the Army to perform the duties of Chief of Staff for each fully organized tactical division of the National Guard.

SERGEANTS FOR DUTY WITH THE NATIONAL GUARD.—For the

SERGEANTS FOR DUTY WITH THE NATIONAL GUARD.—For the purpose of assisting in the instruction of the personnel and care of property in the hands of the National Guard the Secretary of War is authorized to detail from the Regular Army not to exceed one thousand sergeants for duty with the National

Guard.

ADJUTANTS GENERAL OF STATES, ETC.—The adjutants general of the States, Territories, and the District of Columbia and the officers of the National Guard shall make such returns and reports to the Secretary of War, or to such officers as he may designate, at such times and in such form as he may prescribe. The adjutants general of the Territories and of the District of Columbia shall be appointed by the President and shall be citizens of the Territories for which they are appointed.

APPROPRIATION, APPORTIONMENT, AND DISBURSEMENT.—A sum of money shall hereafter be appropriated annually, for the support of the National Guard, including the expense of providing arms, ordnance stores, and camp equipage, and all other military supplies for issue to the National Guard.

ENLISTMENTS IN THE NATIONAL GUARD.—Hereafter the period of enlistment in the National Guard shall be for six years, the first three years of which shall be in an active organization and the remaining three years in the National Guard Reserve, and the qualifications for enlistment shall be the same as those prescribed for admission to the Regular Army.

Hereafter all men enlisting for service in the National Guard shall sign an enlistment contract and take and subscribe to the state of the property to
shall sign an enlistment contract and take and subscribe to the oath which contains an obligation to defend the Constitu-tion of the United States and to obey the orders of the President

of the United States.

of the United States.

DISCHARGE OF ENLISTED MEN.—An enlisted man discharged from service in the National Guard shall receive a discharge in writing in such form and with such classification as is prescribed for the Regular Army, and in time of peace discharges may be given prior to the expiration of terms of enlistment under such regulations as the President may prescribe.

QUALIFICATIONS FOR OFFICERS.—Persons hereafter commissioned as officers of the National Guard shall be selected from the following classes and shall take and subscribe to an oath of office: Officers or enlisted men of the Guard; officers and former officers of the United States Army, Navy, and Marine Corps; graduates of the Military and Naval Academies and of schools, colleges, and universities where military science is taught, and, for the technical branches and staff corps or departments, such other civilians as may be especially qualified for duty therein. The applicant shall have successfully passed examinations conducted by a board of three commissioned officers appointed by the Secretary of War. the Secretary of War.

THE NATIONAL GUARD RESERVE

A National Guard Reserve shall be organized in each State, Territory, and the District of Columbia, and shall consist of such organizations, officers, and enlisted men as the President may prescribe, or members thereof may be assigned as reserves may prescribe, or memoers thereof may be assigned as reserves to an active organization of the National Guard. Members of said reserve, when engaged in field or coast-defense training with the active National Guard, shall receive the same Federal pay and allowances as enlisted men of like grade on the active list of said guard when likewise engaged.

Leaves of absence for Government employees.—All officers and employees of the United States and of the District of Columbia who shall be members of the National Guard shall be entitled to leave of absence from their respective duties,

without loss of pay, time, or efficiency rating, on all days during which they shall be engaged in field or coast-defense training.

MILITIA BUREAU OF THE WAR DEPARTMENT.—The Militia Division now existing in the War Department shall hereafter be known as the Militia Bureau, shall, like other bureaus of said department, be under the immediate supervision of the said department, be under the immediate supervision of the Secretary of War, and shall not form a part of any other bureau, office, or other organization, but the Chief of the Militia Bureau shall be ex officio a member of the General Staff Corps.

Armament, Equipment, and uniform.—The National Guard of the United States shall, as far as practicable, be uniformed, armed, and equipment as are provided for the Regular Army, and equipments as are provided for the Regular Army.

The Secretary of War is authorized to procure, by purchase or manufacture, and to issue from time to time to the Guard, upon requisition of the governors of the several States and

upon requisition of the governors of the several States and Territories or the commanding general of the National Guard of the District of Columbia, such number of United States service arms, with all accessories, field uniforms, etc., including public animals, as are necessary to arm, and equip the Guard

for field service.

Discretine.—The discipline (which includes training) of the
National Guard shall conform to the system which is now pre-

scribed for the Regular Army.

Training of the National Guard.—Each company, troop, battery, and detachment in the National Guard shall assemble for drill and instruction, including indoor target practice, not less than forty-eight times each year, and shall, in addition thereto, participate in encampments, maneuvers, or other exercises, including outdoor target practice, at least fifteen days in training each year, unless such company, troop, battery, or detachment shall have been excused from participation in any part thereof by the Secretary of War. Credit shall not be given unless the number of officers and enlisted men present for duty at such assembly shall equal a minimum to be prescribed by the President, nor unless the period of actual military duty and instruction, at each assembly shall be of at least one and one-half hours' duration.

INSPECTIONS OF THE NATIONAL GHARD—The Secretary of Training of the National Guard.—Each company, troop,

INSPECTIONS OF THE NATIONAL GUARD.—The Secretary of War shall cause an inspection of the Guard to be made at least once each year by inspectors general of the Regular Army. Use of REGULAR ARMY PERSONNEL.—The Secretary of War may detail one or more officers and enlisted men of the Regular

Army to attend any encampment, maneuver, or other exercise for field or coast-defense instruction of the National Guard, who shall give such instruction and information to the officers

NATIONAL GUARD OFFICERS AND MEN AT SERVICE SCHOOLS.—
The Secretary of War may, upon the recommendation of the governor of any State or Territory or the commanding general of the National Guard of the District of Columbia, authorize of the National Guard of the District of Columbia, authorize a limited number of selected officers or enlisted men of the National Guard to attend and pursue a regular course of study at any military service school of the United States, except the United States Military Academy; or to be attached to an organization of the same corps, or department to which such officer or enlisted man shall belong, for routine practical instruction at or near on Army post during a good of feld training. tion at or near an Army post during a period of field training or other outdoor exercises.

SUBJECT TO LAWS GOVERNING REGULAR ARMY.—The National Guard when called as such into the service of the United tional Guard when called as such into the service of the United States shall, from the time they are required by the terms of the call to respond thereto, be subject to the laws and regulations governing the Regular Army, so far as they are applicable to officers and enlisted men whose permanent retention in the military service, is not contemplated by existing law.

Park Burn Mathautar Granen converges—Certain commis-

PAY FOR NATIONAL GUARD OFFICERS.—Certain commis-

sioned officers on the active list belonging to organizations of the National Guard shall receive compensation for their services, the National Guard shall receive compensation for their services, except during periods of service for which they may become lawfully entitled to the same pay as officers of corresponding grades of the Regular Army, as follows: A captain \$500 per year and the same pay shall be paid to every officer of higher rank than that of captain, a first lieutenant \$240 per year, and a second lieutenant \$200 per year.

All staff officers, aids-de-camp, and chaplains shall receive not to exceed one-half of the pay of a captain, except that regimental adjustants, and majors and captains in compand of

mental adjutants, and majors and captains in command of machine-gun companies, ambulance companies, field hospital companies, or sanitary troops shall receive the pay hereinbefore authorized for a captain.

PAY FOR ENLISTED MEN .- Each enlisted man on the active list belonging to an organization of the National Guard shall receive compensation for his services, except during periods of service for which he may become lawfully entitled to the same service for which he may become lawfully entitled to the same pay as an enlisted man of corresponding grade in the Regular Army, at a rate equal to twenty-five per cent. of the initial pay now provided by law for enlisted men of corresponding grades of the Army. Such enlisted man shall receive the compensation provided if he shall have attended not less than forty-eight regular drills during any one year, and a proportionate amount for attendance upon a lesser number of such drills,

not less than twenty-four.

WHEN DRAFTED INTO FEDERAL SERVICE.—When Congress shall have authorized the use of the armed land forces of the WHEN DRAFFED INTO FEDERAL SERVICE.—WHEN CONTRESS shall have authorized the use of the armed land forces of the United States, for any purpose requiring the use of troops in excess of those of the Regular Army, the President may, under such regulations, draft into the military service of the United States, to serve therein for the period of the war unless sooner discharged, any or all members of the National Guard and of the National Guard Reserve. All persons so drafted shall, from the date of their draft, stand discharged from the militia, and shall from said date be subject to such laws and regulations for the government of the Army of the United States as may be applicable to members of the Volunteer Army, and shall be embodied in organizations corresponding as far as practicable to those of the Regular Army or shall be otherwise assigned as the President may direct. The commissioned officers of said organizations shall be appointed from among the members thereof, officers with rank not above that of colonel to be appointed by the President alone, and all other officers to be appointed by the President.

ENCOURAGEMENT OF RIFLE PRACTICE.—The Secretary of War

ENCOURAGEMENT OF RIFLE PRACTICE.—The Secretary of War shall annually submit to Congress recommendations and esti-mates for the establishment and maintenance of indoor and mates for the establishment and maintenance of indoor and outdoor rifle ranges, under such a comprehensive plan as will ultimately result in providing adequate facilities for rifle practice in all sections of the country. And that all ranges so established and all ranges which may have already been constructed, shall be open for use by those in any branch of the military or naval service of the United States and by all ablebodied males capable of bearing arms, under reasonable regulations to be prescribed by the controlling authorities. The President may detail capable and noncommissioned officers of the Regular Army and National Guard to duty at such ranges as instructors for the purpose of training the citizenry in the use of the military arm. Where rifle ranges shall have been so established and instructors assigned to duty thereat, the Secretary of War shall be authorized to provide for the issue of a reasonable number of standard military rifles and such quantities of ammunition as may be available for use in conducting such rifle practice.

Such rile practice.

Au enlisted man when discharged from the service, except An enisted man when discharged from the service, except by way of punishment for an offense, shall receive 3½ cents per mile from the place of his discharge to the place of his acceptance for enlistment, enrollment, or original muster into the service, at his option. For sea travel on discharge transportation and subsistence only shall be furnished to enlisted

THE COUNCIL OF NATIONAL DEFENSE

On October 11, 1916, President Wilson appointed seven members of the Advisory Commission to be associated with the Council of National Defense created by a law approved Au-

Council of National Detense created by a law approved August 29, 1916.

The Council of National Defense consists of the Secretaries of War, Navy, Interior, Agriculture, Commerce, and Labor. The members are Daniel Willard, President of the Baltimore and Ohio Railroad; Samuel Gompers, President of the American

Federation of Labor; Dr. Franklin H. Martin of Chicago; Howard E. Coffin of Detroit; Bernard Baruch of New York; Hollis Godfrey of Philadelphia, and Julius Rosenwald of

The Council of National Defense has been created because the Congress has realized that the country is best prepared for

war when thoroughly prepared for peace.

Upon this conception of the national welfare the council is organized for the creation of relations which will render possible in time of need the immediate concentration and utilization of the resources of the Nation.

ARMY APPROPRIATIONS

Approximately \$175,000,000 has been appropriated by Congress, for the Army, for the year ending June 30, 1917. The law, approved August 29, 1916, carries the following appropriations: Ammunition for field artillery for National Guard, \$10,000,000 Armored motor cars. Barracks and quarters for Army and National Guard Citizens' training camps Clothing, camp and garrison equipage. Dependents of National Guardsmen now in service 3,146,000 2,000,000 20,000,000 10,000,000 Machine rifles

Machine rifles for National Guard

Manufacture of arms

 Manufacture of arms
 6,000,000

 Medical department
 5,000,000

 Ordnance stores and ammunition
 10,000,000

 Ordnance stores and supplies
 9,500,000

 Pay of enlisted men.
 32,000

 Pay (additional) for least
 32,500,000

 Ordnance stores and ammunition
 10,000,000

 Ordnance stores and supplies.
 9,500,000

 Pay of enlisted men
 23,000,000

 Pay (additional) for length of service
 2,300,000

 Pay of enlisted men National Guard
 18,000,000

 Pay of Medical Department
 2,300,000

 Pay of officers of the line
 10,000,000

 Pay (additional) for length of service
 2,225,000

 Pay of officers National Guard
 9,000,000

 Pay for retired officers and enlisted men
 5,800,000

 Purchase of land in California for aviation school
 300,000

 Quartermasters Corps, regular supplies
 11,000,000

Quartermasters Corps, other supplies	\$ -2,000,000
Signal service.	14,281,766
Small-arms target practice	3,000,000
Subsistence of Army Transportation of the Army and supplies	20,000,000
Water and sewers at military posts and mobilization	23,000,000
camps.	4,000,000

COLLEGES IN ARMY RESERVE

The following institutions were authorized by the War Department officials, to give military instruction:
Princeton University, Harvard University, Yale University, University of Michigan, University of Alabama, Virginia Military Institute, Stevens Institute of Technology, Catholic University of America, Lehigh University, Ohio State University, University of Tennessee, Clemson Agricultural College, University of Minnesota, University of Illinois, City College of New York and University of Vermont.

These institutions will give an approved military course under supervision of the War Department and the graduates thereof may be commissioned as second lieutenants in the Regular Army Reserve. It is aimed to create a maximum of 50,000 such officers.

50,000 such officers.

THEATRE FIRES

The first of the many terrible theatre fires which have caused the death of such a multitude of amusement-seekers occurred in 1613, when Shakespeare's Globe Theatre in London was completely consumed by the flames. The house was crowded to its capacity to witness the play of "Henry VIII," but there was no panic and the audience escaped unburt. In the early part of the last century three London playhouses—the Surrey, the Covent Garden and the Drury Lane—were destroyed by fire, and in 1811 the first of the disastrous theatre fires of America occurred in Richmond, when seventy persons, including Gov. Smith, perished in the flames. The Iroquois Theatre fire in Chicago was the most terrible of modern conflagrations of this character, 573 persons, mostly women and children, having been burned or trampled to death in that horrible 1903 disaster. The first of the many terrible theatre fires which have caused

EIGHT-HOUR RAILROAD LAW

An Act To Establish an eight-hour day for employees of carriers engaged in interstate and foreign commerce, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That beginning January first, nineteen hundred and seventeen, eight hours shall, in contracts for labor and service, be deemed a day's work for the purpose of reckoning the compensation for services of all employees who are now or may hereafter be employed by any common carrier by milroad, except railroads independently owned and operated not exceeding one hundred miles in length, electric street railroads, and electric interurban railroads, which is subspect to the provisions of the Act of February fourth, eighteen hundred and eighty-seven, entitled "An Act to regulate commerce," as a mended, and who are now or may hereafter be actually engaged in any capacity in the operation of trains used for the transportation of persons or property on railroads, except railroads independently owned and operated not exceeding one hundred miles in length, electric street railroads, and electric interurban railroads, from any State or Territory of the United States or the District of Columbia, or from one place in a Territory to another place in the United States or the District of Columbia, or from one place in a Territory to another place in the United States or the District of Columbia, or from one place in a Territory to another place in the United States or the District of Columbia, or from one place in a Territory to another place in the United States or the District of Columbia, or from one place in a Territory to another place in the United States or the District of Columbia, or from one place in a Territory to another place in the United States or the District of Columbia, or from one place in a Territory to another place in the United States or the District of Columbia, or from one place in a Territory to another place in the United States or the United States or the United

An Act To Establish an eight-hour day for employees of stitution of the eight-hour standard workday as above defined

UNITED STATES SHIPPING LAW

In a law, approved September 7, 1916, Congress established a United States Shipping Board, for the purpose of creating a naval auxiliary and naval reserve and a merchant marine, to meet the requirements of the commerce of the United States, meet the requirements of the commerce of the United States, with its Territories and possessions and with foreign countries. This Shipping Board shall regulate carriers by water, engaged in foreign and interstate commerce of the United States.

The board is composed of five commissioners, appointed by the President for two, three, four, five and six years respectively, from the date of their appointment. Their successors shall be appointed for a term of six years. Each member's salary is \$7,500 per annum. The secretary receives \$5,000.

Function

Function

The board, with the approval of the President, is authorized to have constructed and equipped in American shipyards and navy yards or to purchase, lease, or charter, vessels suitable, as far as the commercial requirements of the marine trade of the United States may permit, for use as naval auxiliaries or Army transports, or for other naval or military purposes, and to make necessary repairs on and alterations of such vessels. Vessels engaged in foreign or domestic commerce or vessels under a flag of a foreign country at war shall not be taken.

The board may charter, lease or sell to any citizen of the United States, any vessel which they have acquired. This vessel may be registered as a vessel of the United States and entitled to the benefits and privileges appertaining thereto.

No vessel registered under the laws of the United States shall, in time of national emergency, be sold, leased, or chartered to a foreign flag; without the approval of the board.

No vessel registered under the laws of the United States, or owned by any citizen, except one which the board is prohibited from purchasing, shall be sold to any person not a citizen of the United States, or catizen of the United States or concept the shall be sold to any person of a citizen of the United States or transferred to a foreign flag, unless first tendered to the board at the price, in good faith, offered by others. Whoever violates any provision of this section shall be guilty of a misdemeanor and subject to a fine of not more than \$5,000 or to imprisonment of not more than five years, or both. If, in the judgment of the President, an emergency exists he may take possession of any vessel purchased, leased or chartered from the board without notice. The board may form, under the laws of the District of Columbia, one or more corporations for the purchase, construction, equipment, lease, charter, maintenance, and operation of merchant vessels in the commerce of the United States. The total capital stock thereof shall not exceed \$50,000,00 No vessel registered under the laws the United States, or more than No vessel registered under the laws the board is prohibited. From purchasing, shall be sold to any person not a citizen of the United States or transferred to a foreign flag, unless first tendered to the board at the price, in good faith, offered by others. Whoever violates any provision of this section shall be guilty of a misdemeanor and subject to a fine of not more than 55,000 or to imprisonment of not more than five years, or both.

If, in the judgment of the President, an emergency exists may return the board without notice. The board may form, and the subject to this Act or subject to this Act or subject to this Act or the stock of the United States in such corporation, and oall other things in regard thereto necessary to protect the interests of the United States is a stockholder shall engage in the operation of any essel purches of the stock of the United States in such corporation, but at no time shall it be a minority stockholder shall engage in the operation of any vessel acquired, included the such corporation of the person and the part of the purposes of this Act. The board, with the approval of the President, and the purpose of this Act. The board with the suppose of the other of the United States in such corporation, but at no time shall it be a minority stockholder shall engage in the operation of any vessel acquired, may sell any or all of the vests of the United States is a stockholder shall engage in the operation of the president, and the property of any vessel and the property of any vessel son the part of the United States is a stockholder, shall cease and the said corporation stand dissolved. The board shall be unable, after a bona fide effort, to contract with any person a clitter of the board. The board may sell, lease, or charter such corporation in which the United States is a stockholder, shall cease and the said corporation of the president of the property on the best and admitted the property of the property of th

aid in the development of an American merchant marine. It shall examine the navigation laws of the United States and make such recommendations to Congress as it deems proper for the amendment and improvement of such laws, and for the

for the amendment and improvement of such laws, and for the development of the American merchant marine.

No common carrier by water, shall directly or indirectly—
1st. Return or allow any portion of the freight money by a carrier to any shipper as a consideration for the giving of all or any portion of his shipments to the same or any other carrier, or for any other purpose, the payment of which is deferred beyond the completion of the service for which it is paid, and is made only if, during both the period for which computed and the period of deferment, the shipper has complied with the terms of the rebate agreement or arrangement.

2d. Use either separately or in conjunction with any other.

2d. Use either separately or in conjunction with any other carrier, a vessel, in a particular trade, for the purpose of preventing, or reducing competition by driving another carrier out

venting, or reducing competition by driving another carrier out of said trade.

3d. Retaliate against any shipper by refusing, or threatening to refuse, space accommodations when such are available, or resort to other discriminating or unfair methods, because such shipper has patronized any other carrier or has filed a complaint charging unfair treatment, or for any other reason.

4th. Make any unfair discriminatory contract with any shipper based on the volume of freight offered, or unfairly treat or unjustly discriminate against any shipper in the matter of (a) cargo space accommodations or other facilities, due regard being had for the proper loading of the vessel and the available tonnage; (b) the loading and landing of freight in proper condition; or (c) the adjustment and settlement of claims.

Any carrier who violates any of these provisions shall be guilty of a misdemeanor punishable by a fine of not more than \$25,000 for each offense.

\$25,000 for each offense.

The board may require any common carrier by water, or other person subject to this Act, to file with it any periodical or special report, or any account, record, rate, or charge, or any memorandum of any facts and transactions appertaining to the business of such carrier or other person subject to this Act. Such report, account, record, rate, charge, or memorandum shall be under oath whenever the board so requires, and shall be furnished in the form and within the time prescribed by the board. Whoever fails to file same, shall forfeit to the United States the sum of \$100 for each day of such default.

Any person may file with the board a sworn complaint setting forth any violation of this Act, and asking reparation for the injury, if any, caused thereby. The board shall furnish a copy of the complaint to common carrier or other person, who shall, within a reasonable time specified by the board satisfy the complaint or answer it in writing. If the complaint is not satisfied, the board shall investigate it and make such order as it deems proper.

as it deems proper.

The board may reverse, suspend, or modify, in such manner as it deems proper, any order made by it. Upon application of any party to a decision or order it may grant a rehearing of the supplication for or allowance of a hearing of

of any party to a decision or order it may grant a rehearing of the same, but no such application for or allowance of a hearing shall operate as a stay of such order.

The board shall enter on record, a written report of every investigation and hearing and may publish such reports in the form best adapted for public information and use, and such authorized publications shall, without further proof or authen-tication, be competent evidence of such reports in all courts of the United States and possessions.

It shall be the duty of the board, whenever complaint shall be made to it, to investigate the action of any foreign Govern-

It shall be the duty of the board, whenever complaint shall be made to it, to investigate the action of any foreign Government, with respect to the burdens imposed upon vessels of the United States engaged in foreign commerce, whenever it shall appear that the laws or practices of any foreign Government, operate in such a manner, that United States vessels are not accorded equal privileges with vessels of other foreign countries.

It shall be the duty of the board to report the results of its investigation to the President, with its recommendations, and the President is authorized and empowered to secure by diplomatic action, equal privileges for vessels of the United States engaged in such foreign trade. If by such action the President shall be unable to secure equal privileges, then he shall advise Congress as to the facts and his conclusions, by special message, if deemed important in the public interest, in order that proper action may be taken thereon.

The Secretary of the Treasury is authorized to refuse a clearance to any vessel laden with merchandise destined for a foreign or domestic port whenever he shall have satisfactory reason to believe that the master, owner, or other officer of such vessel refuses or declines to accept or receive freight or cargo in good condition tendered for such port of destination or for some intermediate port of call, together with the proper freight or transportation charges therefor, by any citizen of the United States, unless the same is fully laden and has no space accommodations for the freight or cargo so tendered, due regard being had for the proper loading of such vessel or vehicle, or unless such freight or cargo consists of merchandise for which such vessel or vehicle is not adaptable.

LEGAL REGULATION OF LENGTH OF WORKING-DAY

Eight Hours

Fight Hours

Public employees and employees on public works (30 States and Territories).—District of Columbia, Alaska, Arizona, California, Colorado, Idaho, Indiana, Kansas, Kentucky, Maryland, Massachusetts, Minnesota, Missouri, Montana, Nevada, New Jersey, New Mexico, New York, Ohio, Oklahoma, Oregon, Pennsylvania, Texas, Utah, Washington, West Virginia, Wisconsin, Wyoming, Hawaii, Porto Rico, and the United States. The 3-hour day for public employees is fixed by the constitutions of Arizona, California, Idaho, Montana, New Mexico, Ohio, Oklahoma, Utah, and Wyoming.

Mines (14 States).—Alaska, Arizona, California, Colorado, Idaho, Missouri, Montana, Nevada, Oklahoma, Oregon, Pennsylvania, Utah, Washington, and Wyoming.

Smelters, reduction works, etc. (5 States).—Alaska, Arizona, California, Colorado, Idaho, Missouri, Montana, Utah, and Wyoming.

Wyoming.

Electric light and power plants (r State).—Arizona.
Cohe ovens (3 States).—Alaska, Arizona, and Colorado.
Blast furnaces (2 States).—Arizona and Colorado.
Cement and plaster mills (2 States).—Arizona and Nevada.
Plate-glass works (r State).—Missouri.
Rolling, rod, and stamp mills (5 States).—Alaska, Arizona,
Colorado, Idaho, and Wyoming.
Tunnels (3 States).—Arizona, California; and Montana.
High-air pressure (2 States).—New Jersey and New York.
Irrigation works (r State).—Montana.
Railroad telegraphers (6 States).—Arkansas, Connecticut,
Maryland, Nevada, Texas, and West Virginia.
Day's work unless otherwise stipulated (0 states).—California,
Connecticut, Illinois, Indiana, Missouri, New York, Ohio,
Pennsylvania, and Wisconsin.

Nine Hours

Railroad telegraphers (5 States).—District of Columbia, Ne-braska, North Carolina, Oregon, and the United States. Telephone operators (1 State).—Montana. Street railways (1 State).—Massachusetts. Interlocking-lower operators, railroad (1 State).—Missouri.

Ten Hours

Saw and planing mills (x State).—Arkansas.
Bakeries (x State).—New Jersey.
Brickyards (corporation) (x State).—New York.
Drug stores (2 States).—California and New York.¹
Cotton and woolen mills (a States).—Georgia and Maryland.
Manufacturing establishments (x State).—Mississippi.
Street railways (5 States).—Louisiana, New York, Rhode
Island, and Washington.
¹ Seventy, hours, per week 6 hours quarting the

¹ Seventy hours per week, 6 hours overtime allowed to make shorter succeeding week; not over 132 hours in any two consecutive weeks.

Day's work unless otherwise stipulated (7 States).—Florida, Maine, Michigan, Minnesota, Nebraska, New Hampshire, and Rhode Island.

Eleven Hours

Grocery stores (z State).—New York.

Twelve Hours

Railroad telegraphers.—Island of Porto Rico.
Railroad trainmen.—Island of Porto Rico.
Street railways (5 States).—California, Maryland, New Jersey,
Pennsylvania, and South Carolina.
These States have no provision in law for the limit of a day's
work: Alabama, Delaware, Iowa, North Dakota, Tennessee,

Vermont, and Virginia.

Thirteen Hours

Railroad trainmen (2 States).-Florida and Georgia.

Fourteen Hours

Railroad trainmen (I State).-Oregon.

Fifteen Hours

Railroad trainmen (x State).—Ohio. Railroad telegraphers (x State).—Ohio. Street railways (x State).—Ohio.

Sixteen Hours

Railroad trainmen (21 States).—Arizona, Arkansas, California, Colorado, District of Columbia, Indiana, Iowa, Kansas, Minnesota, Missouri, Montana, Nebraska, Nevada, New Mexico, New York, North Carolina, North Dakota, South Dakota, Fazis, Washington, Wisconsin, and the United States. Railroad telegraphers (7 States).—Arizona, California, Colorado, Indiana, Kansas, Missouri, and Montana.

Twenty-Four Hours

Railroad trainmen (t State).—Michigan.
NOTE.—A Federal statute fixes the hours of labor of railroad trainmen at 16 per day, and of train dispatchers and railroad telegraph operators at 9 per day (13 hours in offices, etc., operated only in the daytime). Decisions of the United States Supreme Court and of the State courts hold State laws fixing a different standard to be void and unconstitutional in so far a different standard to be void and unconstitutional in so far as interstate commerce is concerned; some courts also hold that a distinction between interstate and intrastate operations is impracticable, so that no law fixing a different standard is valid. Laws thus held void are those of Missouri, New York, Washington, and Wisconsin. The Federal statute enacted at the session of 64th Congress, "to establish an eight-hour day," does not restrict employment to eight hours, but makes the eight-hour day the measure for the payment of wages.

FEDERAL CHILD LABOR LAW

Be it enacted by the Senate and House of persentainers of me United States of America in Congress assembled, That no producer, manufacturer, or dealer shall ship or deliver for shipment in interstate or foreign commerce any article or commodity the product of any mine or quarry, situated in the United States, in which within thirty days prior to the time of the removal of such product therefrom children under the age of sixteen years have been employed or permitted to work, or any article or commodity the product of any mill, cannery, workshop, factory, or manufacturing establishment, situated in the United States, in which within thirty days prior to the removal of such product therefrom children under the age of fourteen years have been employed or permitted to work, or children between the ages of fourteen years and sixteen years have been employed or permitted to work more than eight hours in any day, or more than six days in any week, or after the hour of seven o'clock postmeridian, or before the hour of six o'clock antemeridian. Provided, That a prosecution and conviction of a defendant for the shipment or delivery for shipment of any article or commodity under the conditions herein prohibited shall be a bar to any further prosecution against the same defendant for shipments or deliveries for shipment of any such article or commodity before the beginning of said prosecution.

Sec. 2. That the Attorney General, the Secretary of Commerce, and the Secretary of Labor shall constitute a board to make and publish from time to time uniform rules and regulations for carrying out the provisions of this Act.

Sec. 3. That for the purpose of securing proper enforcement of this Act the Secretary of Labor, or any person duly authorized by him, shall have authority to enter and inspect at any time mines, quarries, mills, canneries, workshops, factories, manufacturing establishments, and other places in which goods are produced or held for interstate commerce, and the Secretary of Labor shall have authority to employ su

An Act To prevent interstate commerce in the products of child labor, and for other purposes.

Be il enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That no produces, manufacturer, or dealer shall ship or deliver for shipment or transportation who establishes a guaranty issued by the United States of America in Congress assembled, That no produces, manufacturer, or dealer shall ship or deliver for shipment or transportation were manufactured or produced, resident in the United States, to the effect that such goods were produced or manufactured in a mine or quarry in which within thirty days prior to the time of the removal of any mine or quarry of the time of the removal of any of the control of the cont days prior to their removal thereirom no children under the age of sixteen years were employed or permitted to work, or in a mill, cannery, workshop, factory, or manufacturing establishment, in which within thirty days prior to the removal of such goods therefrom no children under the age of fourteen years were employed or permitted to work, nor children between lishment, in which within thirty days prior to the removal of such goods therefrom no children under the age of fourteen years were employed or permitted to work, nor children between the ages of fourteen years and sixteen years employed or permitted to work more than eight hours in any day or more than eight hours in any day or more than six days in any week or after the bour of seven o'clock postmerdian or before the hour of six o'clock antemeridian; and in such event, if the guaranty contains any false statement of a material fact, the guaranty contains any false statement of a material fact, the guarantor shall be amenable to prosecution and to the fine or imprisonment provided by this section for violation of the provisions of this Act. Said guaranty, to afford the protection above provided, shall contain the name and address of the person giving the same: And provided further, That no producer, manufacturer, or dealer shall be prosecuted under this Act for the shipment, delivery for shipment, or transportation of a product of any mine, quarry, mill, cannery, workshop, factory, or manufacturing establishment, if the only employment therein, within thirty days prior to the removal of such product therefrom, of a child under the age of sixteen years has been that of a child as to whom the producer or manufacturer has in good faith procured, at the time of employing such child, and has since in good faith relied upon and kept on file a certificate, issued in such form, under such conditions, and by such persons as may be prescribed by the board, showing the child to be of such an age that the shipment, delivery for shipment, or transportation was not prohibited by this Act. Any person who knowingly makes a false statement or presents false evidence in or in relation to any such certificate or application therefor shall be amenable to prosecution and to the fine or imprisonment provided by this section for violations of this Act. In any State designated by the board, an employment certificate or other similar

facture or production.

SEC. 7. That this Act shall take effect from and after one year from the date of its passage.

Approved, September 1, 1916.

RHONE CANAL

The new canal connecting the Rhone River with the sea of Marseilles, which was completed during the war, was opened May 7, 1916. The canal is seventy-seven kilometers long (48.10 miles). The cost of the canal was 90,000,000 francs (\$18,000,000), 35,000,000 francs (\$7,000,000) of which was given by the state and the remainder by the local government and the Chamber of Commerce. The most difficult work in the construction was the building of the tunnel, which is 7 kilometers (4.3 miles) long. The canal will accommodate 600-ton barges drawing 8 feet. It opens up the connection by way of the Rhone and the Saone to 540 kilometers (333 miles) inland with the main line waterways. The waterway will also give Marseilles a direct connection with Havre and the North Sea and form a part of the canal system connecting centers of France's productive resources in oil, coal and irun.

The canal and its tunnel had been under discussion for nearly one hundred years, but the actual work on them was not begun

until 1904. Most of the work on the canal was done since 1910, but much has been added to it since the outbreak of the war. The total length of the canal is sixty miles, and the five mile section under the mountain is seventy-five feet wide and seventy feet high, constituting what is declared to be the largest tunnel interior in the world.

STATUETIC DIAMONDS

It is reported that in research work being carried out at the Laboratory of Inorganic Chemistry at Geneva, Switzerland, a residue was obtained which, besides free carbons of varying weight, contained "very hard and very heavy white tetrahedral and octohedral crystals which burned without leaving ashes and were insoluble in aqua regia, possessing, as far as the analysis made up to the present show, all the properties of the diamond." Synthetic diamonds have been produced before, but the stones are too small and the process too costly for the discovery to be of much practical value.

THE FEDERAL FARM LOAN LAW

The Federal Farm Loan law was passed by Congress and approved July 17, 1916. Its purpose is "to provide capital for agricultural development, to create standard forms of investment based upon farm mortgage, to equalize rates of interest upon farm loans, to furnish a market for United States bonds, to create Government depositaries and financial agents for the United States." Its administration is under the direction and control of the Federal Farm Loan Board. tion and control of the Federal Farm Loan Board.

THE FARM LOAN BOARD

The board consists of the following members, appointed by

The board consists of the following members, appointed by the President and approved by the Senate:
George W. Norris, Philadelphia, Pa., two years.
Charles E. Lobdell, Great Bend, Ind., four years.
Herbert Quick, Berkeley Springs, W. Va., six years.
W. S. A. Smith, Sioux City, Iowa, eight years.
The Secretary of the Treasury is Chairman ex officio. William W. Flannagan is secretary of the board. Mr. Norris is commissioner and chief executive officer. Each member's colors in \$10.000 per year and pressary it studying errorses. salary is \$10,000 per year and necessary traveling expenses.

FEDERAL LAND BANKS

Continental United States is divided into 12 Federal land bank districts, each district having a Federal land bank. Each bank before beginning business must have a capital of not less than \$750,000 which is to be divided into shares of \$5 each and may be subscribed for by anybody. The United States subscribes for all remaining shares of the \$750,000 that are untaken

after thirty days.
Each share is entitled to dividends except those held by the
United States Government.
The Federal land banks are depositaries of public money.
They may also be employed as financial agents of the Govern-

NATIONAL FARM LOAN ASSOCIATION

Corporations, to be known as National Farm Loan Associations, may be organized by persons desiring to borrow money on farm mortgage securities. Ten or more persons, who are owners or about to become owners of farm land qualified as security for a mortgage loan, may unite to form such an association. The aggregate of the desired loan of the members must not be less than \$20,000.

Whenever any farm loan association shall desire to secure for any member, a loan on first mortgage, from the Federal land bank of its district, it shall subscribe for capital stock of the land bank to the amount of 5 per cent. of such loan, subscription to be paid in cash upon granting of the loan. Corporations, to be known as National Farm Loan Associa-

Capital Stock

Shares in the national farm loan association shall be of the par value of \$5 each. Every shareholder shall be entitled to one vote on each of his shares. The maximum number of votes which may be cast by any one shareholder shall be twenty. No person other than a borrower shall be a member or shareholder. Any person desiring to borrow on farm land mortgage through a national farm loan association shall make application for membership and shall subscribe for shares of stock to an amount equal to 5 per cent. of the face of the desired loan, the subscription to be paid in cash upon granting of the loan.

Restrictions on Loans Based on First Mortgages

No Federal land bank shall make loans except upon the following terms and conditions:

18t. Loans shall be secured by duly recorded first mortgages
on farm land within the land bank district in which the bank is

situated.

2nd: Every such mortgage shall contain an agreement providing for the repayment of the loan on an amortization plan by means of a fixed number of annual or semiannual installments sufficient to cover, first, a charge on the loan, second, a charge for administration and profits at a rate not exceeding one per cent. per annum on the unpaid principal. These two rates combined shall constitute the interest rate on the mortgage; and, third, such amounts to be applied on the principal as will extinguish the debt within an agreed period, not less

than five years nor more than forty years. After five years from the date upon which a loan is made, additional payments in sums of \$25 or any multiple thereof, for the reduction of the principal, may be made on any regular installment date.

3rd. No loan on mortgage shall be made at a rate of interest exceeding six per cent. per annum, exclusive of amortization

payments.
4th. Such loans may be made for the following purposes and

ath. Such loans may be made for the following purposes and no other:

(a) To provide for the purchase of land for agricultural uses.
(b) To provide for the purchase of equipment, fertilizers and live stock necessary for the proper and reasonable operation of the mortgaged farm.

(c) To provide buildings and for improvements of farm lands.
(d) To liquidate indebtedness of the owner of the land mortgaged, existing at the time of the organization of the first national farm loan association established in or for the county in which the land mortgaged is situated, or indebtedness subsequently incurred for purposes mentioned in this section.

5th. No such loan shall exceed 50 per cent. of the value of the permanent, insured improvements thereon, said value to be ascertained by appraisal. In making appraisal, the value of the land for agricultural purposes shall be the basis and the earning power of the land shall be a principal factor.

6th. No such loan shall be made to any person who is not at the time, or shortly to become, engaged in the cultivation of the farm mortgaged. In case of the sale of the mortgaged land, the Federal land bank may permit said mortgage and the stock interests of the vendor to be assumed by the purchaser. In case of the death of the mortgage, his heir or heirs, or his legal representative shall have the option, within sixty days of such death, to assume the mortgage and stock interests of the death.

7th. The amount of loans to any one borrower shall in no case exceed a maximum of \$10,000, nor shall any loan be for a

less sum than \$100.

8th. Every applicant for a loan under the terms of this Act shall make application on a form to be prescribed for that purpose by the Federal Farm Loan Board, and such applicant shall state the objects to which the proceeds of said loan are to be applied, and shall afford such other information as may be re-

9th. Every borrower shall pay simple interest on defaulted oth. Every borrower shall pay simple interest on defaulted payments at the rate of eight per cent. per annum, and by express covenant in his mortgage deed shall undertake to pay when due all taxes, liens, judgments, or assessments which may be lawfully assessed against the land mortgaged. Taxes, etc., not paid when due, and paid by the mortgagee, shall become a part of the mortgage debt and shall bear simple interest at the rate of eight per cent. per annum. Every borrower shall undertake to keep insured to the satisfaction of the Federal Farm Loan Board all buildings the value of which was a factor in determining the amount of the loan. Insurance shall be made payable to the mortgage as its interest may appear at time of payable to the mortgagee as its interest may appear at time of loss, and, at the option of the mortgagor and subject to general regulations of the Federal Farm Loan Board, sums so received may be used to pay for reconstruction of the buildings de-

stroyed.

10th. Every borrower who shall be granted a loan under the provisions of this Act shall enter into an agreement, in form and under conditions to be prescribed by the Federal Farm Loan Board, that if the whole or any portion of his loan shall be expended for purposes other than those specified in his original application, or if the borrower shall be in default in respect to any condition or covenant of the mortgage, the whole of said loan shall, at the option of the mortgage, become due and payable forthwith. The borrower may use part of said loan te pay for his stock in the farm loan association, and the land bank holding such mortgage may permit said loan to be used for any purpose specified.

purpose specified.

11th. That no loan or the mortgage securing the same shall be impaired or invalidated by reason of the exercise of any power by any Federal land bank or national farm loan association in excess of the powers herein granted or any limitations

Funds transmitted to farm loan associations by Federal land banks to be loaned to its members shall be in current funds, or farm loan bonds, at the option of the borrower.

The Federal land bank shall charge applicants for loans, rea-

sonable fees not exceeding the actual cost of appraisal and determination of title. Legal fees and recording charges imposed by law in the State where the land to be mortgaged is located, by law in the State where the land to be mortgaged is located, may also be included in the preliminary costs of negotiating loans. The borrower may pay such fees, making the loan to advance same, in which case the expenses shall be made a part of the face of the loan and paid off in amortization payments. Such addition shall not be permitted to increase said loan above the limitations.

AGENTS OF FEDERAL LAND BANKS

Whenever, after this Act shall have been in effect one year, it shall appear to the Federal Farm Loan Board that national farm loan associations have not been formed, and are not likely to be formed, in any locality, because of peculiar local condi-tions, said board may, in its discretion, authorize Federal land banks to make loans on farm lands through agents approved by said board.

Such loans shall be subject to the same conditions and restrictions as if the same were made through national farm loan asso-

No agent other than a duly incorporated bank, trust company, mortgage company, or savings institution, chartered by the State in which it has its principal office, shall be employed under the provisions of this section.

Federal land banks may pay to such agents the actual expense of appraising the land offered as security for a loan, examining and certifying the title thereof, and making, and recording the mortgage papers; and in addition may allow said agents not to exceed one-half of one per cent. per annum upon the unpaid principal of said loan, such commission to be deducted from dividends payable to the borrower on his stock in the Federal land bank.

Actual expenses paid to agents under the provisions of this section shall be added to the face of the loan and paid off in

amortization payments.

GOVERNMENT DEPOSITS

The Secretary of the Treasury is authorized, in his discretion, upon the request of the Federal Farm Loan Board, to make deposits for the temporary use of any Federal land bank, out of any money in the Treasury not otherwise appropriated. Such Federal land bank shall issue to the Secretary of the Treasury a Federal land bank shall issue to the Secretary of the Treasury a certificate of indebtedness for any such deposit, bearing a rate of interest not to exceed the current rate charged for other Government deposits, to be secured by farm loan bonds or other collateral, to the satisfaction of the Secretary of the Treasury. Any such certificate shall be redeemed and paid by such land bank at the discretion of the Secretary of the Treasury. The aggregate of all sums so deposited by the Secretary of the Treasury shall not exceed the sum of \$6,000,000 at any one time.

PHILIPPINE GOVERNMENT LAW

Congress passed a law, on August 18, 1916, declaring "the purpose of the people of the United States as to the future political status of the Philippine Islands, and providing a more autonomous government for those islands." The law was approved by President Wilson on August 29, 1916.

The interesting features of the law are as follows:

No law shall be enacted in the Philippine Islands which shall deprive any person of life, liberty, or property without due process of law, or deny to any person therein, the equal protection of the laws. Private property shall not be taken for public use without just compensation.

No law, granting a title of nobility shall be enacted, and no person holding any office of profit or trust in said islands shall, without the consent of the Congress of the United States, accept any present, emolument, office, or title of any kind whatever from any king, queen, prince, or foreign State.

Statutory laws of the United States hereafter enacted, shall not apply to the Philippine Islands, except when they specifically so provide.

All property and rights, which may have been acquired in the islands by the United States, except such property as has been or shall be designated by the President of the United been or shall be designated by the President of the United States for military or other reservations of the United States Government, are placed under the control of the government of the islands, to be administered or disposed of, for the benefit of the inhabitants thereof, and the Philippine Legislature shall have power to legislate with respect to all such matters as it may deem advisable. Acts of the Legislature, with reference to land of the public domain, timber, and mining, hereafter enacted, shall not have the force of law until approved by the President of the United States. Upon the approval of such an act by the Governor General, it shall be transmitted to the President of the United States, and he shall approve or disapact by the Governor General, it shall be transmitted to the President of the United States, and he shall approve or disapprove the same within six months after its submission for his approval, and if not disapproved within such time it shall become a law the same as if it had been specifically approved. Lands in the Philippine Islands which have been or may be reserved for any public purpose of the United States, and, being no longer required for the purpose for which reserved, may be, by order of the President, placed under the control of the government of said islands. This order shall be regarded as effectual to give the government of said islands full control and power to administer and dispose of such lands for the benefit of the inhabitants.

While this Act provides that the Philippine government

While this Act provides that the Philippine government shall have the authority to enact a tariff law the trade relations between the islands and the United States shall continue to be governed exclusively by laws of the Congress of the United States. Tariff acts or acts amendatory to the tariff of the Philippine Islands or any act of the Philippine Legislature affectives. ing immigration or the currency or coinage laws shall not be-

come laws until they shall receive the approval of the President of the United States.

No export duties shall be levied or collected on exports from the Philippine Islands, but taxes and assessments on property and license fees for franchises and internal taxes may be imposed for the purposes of the Philippine government, to protect the public credit.

The entire indebtedness of the Philippine government, shall not exceed at any one time the sum of \$15,000,000; exclusive of those obligations known as friar land bonds, nor that of any

of those obligations known as friar land bonds, nor that of any Province or municipality a sum in excess of seven per cent. of the aggregate tax valuation of its property at any one time. General legislative powers shall be vested in a Legislature which shall consist of the senate and the house of representatives. The two houses shall be designated "The Philippine Legislature: With the Philippine Legislature shall have been organized the existing Philippine Legislature shall have all legislative authority herein granted to the government of the Philippine Islands, except such as may now be within the exclusive jurisdiction of the Philippine Commission, which is so continued until the organization of the Legislature. When the Philippine Legislature shall have been organized, the exclusive legislative jurisdiction and authority exercised by the Philippine Commission shall thereafter be exercised by the Philippine Commission shall thereafter be exercised by the Philippine Legislature.

Legislature.

The members of the Senate of the Philippines, shall be elected for terms of six and three years, by the qualified electors of the Philippines. Each of the senatorial districts shall have the right to elect two senators.

The members of the house of representatives shall be elected triennially. Each of the representative districts shall have the right to elect one representative. The members of the present assembly elected on the first Tuesday in June, 1916, shall be the members of the house of representatives from their respective districts for the term expiring in 1919.

At the first election held, pursuant to this act, the qualified electors shall be those having the qualifications of voters under the present law, and all officers elected by the people shall be as follows:

Every male person who is not a citizen or subject of a foreign Dower twenty-one years of age or over (except insane and feeble-minded persons and those convicted of an infamous offense since August 13, 1898), who shall have been a resident of the Philippines for one year and of the municipality in which he shall offer to vote for six months next preceding the day of voting, and who is comprised within one of the following classes:

voting, and who is comprised within one of the following curson,

(a) Those who under existing law are legal voters and have
exercised the right of suffrage.

(b) Those who own real property to the value of 500 pesos, or
who annually pay 30 pesos or more of the established taxes.

(c) Those who are able to read and write either Spanish,

English, or a native language.

The Philippine Islands shall be divided into twelve senate, and ninety representative districts. At the first meeting of the Philippine Legislature there shall be chosen by the Legislature two Resident Commissioners to the United States, who shall two Resident Commissioners to the United States, who shall hold their office for a term of three years beginning with the fourth day of March following their election. No person shall be eligible to election as Resident Commissioner who is not a bona fide electro of said islands and who does not owe allegiance to the United States and who is not more than thirty years of age and who does not read and write the English language.

The supreme executive power shall be vested in an executive officer, whose official title shall be "The Governor General of the Philippine Islands." He shall be appointed by the President, with the consent of the Senate of the United States and hold his office at the pleasure of the President. He shall reside

dent, with the consent of the Senate of the United States and hold his office at the pleasure of the President. He shall reside in the Philippines during his official incumbency and maintain his office at the seat of government.

He shall have general supervision and control of all of the departments and bureaus of the Philippines, and shall be commander in chief of all locally created armed forces and militia. He is hereby vested with the exclusive power to grant pardons and reprieves and remit fines, and may veto any legislation enacted. He shall submit, within ten days of the opening of each regular session of the Philippine Legislature, a budget of receipts and expenditures, which shall be the basis of the annual appropriation bill. He shall be responsible for the faithful execution of the laws of the Philippine Islands and of the United States within the islands, and whenever it becomes necessary he may call upon the commanders of the military and naval forces of the United States in the islands, or call out the militia or other locally created armed forces, to prevent or suppress lawless violence, invasion, or rebellion; and he may, when the public safety requires it, suspend the privileges of the writ of habeas corpus, or place the islands, or any part thereof, under martial law. Whenever the Governor General shall exercise this authority, he shall at once notify the President of the United States thereof, together with the attending facts and circumstances, and the President shall have power to modify or vacate the action of the Governor General. He shall annually and at such other times as he may be required make such official report of the transactions of the government of the Philippine Islands to an executive department of the United States; and he shall perform such additional duties and functions as may in pursuance of law be delegated or assigned to him by the President.

The executive departments of the Philippine government shall continue as now authorized by law until otherwise pro-

President.

The executive departments of the Philippine government shall continue as now authorized by law until otherwise provided by the Philippine Legislature. When the Philippine Legislature shall convene and organize, the Philippine Commission, as such, shall cesse and determine, and the members thereof shall vacate their offices as members of said commission. The heads of executive departments shall continue to exercise their executive functions until the heads of departments protheir executive functions until the heads of departments pro-vided by the Philippine Legislature. are appointed and qualified.

All executive functions of the government must be directly

under the Governor General or within one of the executive de-General. There is to be established a bureau, to be known as the Bureau of Non-Christian tribes, which shall be embraced in one of the executive departments to be designated by the Governor General, and shall have general supervision over the public affairs of the inhabitants of the territory represented in the Legislature by appointive acceptance.

public affairs of the inhabitants of the territory represented in the Legislature by appointive senators and representatives.

There shall be appointed by the President, with the consent of the United States Senate, a vice governor of the Philippine Islands, who shall have all of the powers of the Governor General in the case of a vacancy or temporary removal or absence or disability of the Governor General, and the said vice governor shall be the head of the executive department, known as the department of public instruction, which shall include the bureau of education and the bureau of health, and he may be assigned such other executive duties as the Governor General may designate.

The President may designate the head of an executive de-partment to act as Governor General and perform all his duties, in case of a vacancy or absence of the Governor General and

the vice governor.

An auditor shall be appointed by the President, who shall audit and settle all accounts pertaining to receipts of all branches

audit and settle all accounts pertaining to receipts of all branches of the Philippine government.

At the close of each fiscal year his accounts shall be examined by several auditors of the United States and the Comptroller of the United States treasury. The auditor shall then submit to the Governor General and the Secretary of War an annual report. The chief justice and associate justices of the Supreme Court shall be appointed by the President, with consent of the Senate of the United States. The judges of the court of first instance shall be appointed by the Governor General, with the consent of the Philippine Senate. The admiralty jurisdiction of the Supreme Court and courts of first instance shall not be changed except by Act of Congress.

except by Act of Congres

supreme Court and courts of first instance shall not be changed except by Act of Congress.

The Supreme Court of the United States shall have jurisdiction to review, reverse, modify, or affirm the final judgments and decrees of the Supreme Court of the Philippine Islands in all actions, and proceedings now pending therein or hereafter determined thereby in which the Constitution or any statute, treaty or privilege of the United States is involved, or in causes in which the value in controversy exceeds \$25,000, or in which the title or possession of real estate exceeding in value the sum of \$25,000, and such final judgments or decrees may and can be reviewed, reversed, modified, or affirmed by said Supreme Court of the United States on appeal or writ of error by the party aggrieved within the same time, in the same manner, as far as applicable, as the final judgments and decrees of the district courts of the United States.

The annual salaries of the following-named officials appointed by the President shall be: The Governor General, \$18,000; in addition thereto he shall be entitled to the occupancy of the buildings heretofore used by the chief executive of the Philippines, free of rental; vice governor, \$10,000; chief justice of the Supreme Court, \$8,000; associate justices of the Supreme Court, \$8,000; associate justices of the Supreme Court, \$7,500 each; auditor, \$6,000; deputy auditor, \$3,000.

\$7,500 each; auditor, \$6,000; deputy auditor, \$3,000.

FEDERAL AID ROAD ACT

An act to provide that the United States shall aid the States in the construction of rural post roads, was passed by Congress and made a law, when approved by President Wilson on July 11,

SECTION 1. The Secretary of Agriculture is authorized to cooperate with the States, through their respective State highway departments, in the construction of rural post roads. They shall agree upon the roads to be constructed therein and the character and method of construction. All roads constructed under the provisions of this Act shall be free from toils of all

SEC. 2. For the purpose of this Act the term "rural post road" shall be construed to mean any public road over which the United States mails are transported, excluding every street and road in a place having a population, as shown by the latest available Federal census, of two thousand five hundred or more, except that portion of any such street or road along which the houses average more than two hundred feet apart; the term "State highway department" shall include any department of

another name, commission, or official, of a State empowered, under its laws, to exercise the functions ordinarily exercised by a State highway department; the term "construction" shall include reconstruction and improvement of roads; "properly maintained" as used herein shall mean the making of needed repairs and the preservation of a reasonably smooth surface considering the type of the road; but shall not be held to include extraordinary repairs, nor reconstruction; necessary bridges and culverts shall be deemed parts of the respective roads.

SEC. 3. There is hereby appropriated, for the fiscal year ending June thirtieth, nineteen hundred and seventeen, the sum of \$5,000,000; for the fiscal year ending June thirtieth, nineteen hundred and nineteen, the sum of \$15,000,000; for the fiscal year ending June thirtieth, nineteen hundred and nineteen, the sum of \$15,000,000; for the fiscal year ending June thirtieth, nineteen hundred and twenty, the sum of \$20,000,000; and for the fiscal year ending June thirtieth, nineteen hundred and twenty, one, the sum of \$25,000,000. In States where the constitution prohibits it from engaging in any work of internal constitution prohibits it from engaging in any work of internal

improvements, the amount of the appropriation to such State, shall be turned over to the highway department of the State or to the governor, to be expended under the provisions of this Act and under the rules and regulations of the Department of Agriculture, when any number of counties in such State shall appropriate or provide the proportion or share needed to be raised in order to entitle such State to its part of the appropria-

Agriculture, when any number of counties in such State shall appropriate or provide the proportion or share needed to be raised in order to entitle such State to its part of the appropriation.

SEC. 4. The Secretary of Agriculture shall apportion the appropriation for each fiscal year among the several States in the following manner: One-third in the ratio which the area of each State bears to the total area of all the States; one-third in the ratio which the population of each State bears to the total oppulation of all the States, as shown by the latest available Federal census; one-third in the ratio which the mileage of rural delivery routes and star routes in each State bears to the total in all the States, at the close of the next preceding fiscal year, as shown by the certificate of the Postmaster General.

SEC. 5. Within sixty days after the approval of this Act the Secretary of Agriculture shall certify to the Secretary of the Treasury and to each State having no State highway department and to the governor of each State having no State highway department the sum which he has estimated to be deducted for administering the provisions of this Act and the sum which he has apportioned to each State for the fiscal year ending June thirtieth, nineteen hundred and seventeen, and on or before January twentieth next preceding the commencement of each succeeding fiscal year shall make like certificates for such fiscal year.

SEC. 6. Any State desiring to avail itself of the benefits of this Act shall, by its State highway department, submit to the Secretary of Agriculture project statements setting forth proceed construction of any rural post road or roads therein. If the Secretary of Agriculture approve a project, the State highway department shall furnish to him such surveys, plans, specifications, and estimates therefor, and the expenditure of funds hereby authorized shall be applied only to such improvements. Items included for engineering, inspection, and unforeseen contingencies shall not exceed ten per cen

Territory, or county, for the survey, construction, and maintenance of roads and trails within or only partly within the national ferests, when necessary for the use and development of resources upon which communities within and adjacent to the national forests are dependent. The State or county shall enter into a coöperative agreement with the Secretary of Agriculture for the survey, construction, and maintenance of such roads or trails upon a basis equitable to both the State and the United States. The aggregate expenditures in any State shall not exceed ten per centum of the value, as determined by the Secretary of Agriculture, of the timber and forage resources which are or will be available for income upon the national forest lands within the respective county or counties wherein the roads or within the respective county or counties wherein the roads or trails will be constructed; and the Secretary of Agriculture shall make annual report to Congress of the amounts expended hereunder.

APPORTIONMENT TO STATES UNDER FEDERAL AID ROAD ACT

For the Fiscal Year 1917

The amounts apportioned to each State for the fiscal year 1917 are set forth in the following table:

-2	C. 1	1					
	Star and rur		70				
	shown by co		Percent-				
	of Postmas			Sum appor-			
	eral as of J			tioned			
	1910		ment				
		Percent-					
State	Miles	age					
Alabama	29,615	2.39111	2.14740	\$ 104,148.90			
Arizona	3,096	.24997	1.41265	68,513.52			
Arkansas	20,245	1.63458	1.70493	82,698.10			
California	18,823	1.51976	3.11472	151,063.92			
Colorado	10,781	.87045		83,690.14			
Connecticut		.54265		31,090.44			
Delaware!	2.566	.20718		8,184.37			
Florida	8,706	.70292		55,976.27			
Georgia	43,397	3.50386	2.76968	134,329.48			
Idaho	7,594	.61314		60,463.50			
Illinois	69,860.	5.64048		220 026 23			
Indiana	52,619	4.24844		220,926.23 135,747.62			
Iowa	58,943	4.75904		146,175.60			
Kansas	53,240	4.29858		143,207.40			
	27,113	2.18910	2.00973	07 471 04			
Kentucky				97,471.91			
Louisiana	9,458 13,566	.76364		67,474.66			
Maine	13,300	1.09531		48,451.50			
Maryland	11,194	.903.80		44,047.22			
Massachusetts.	7,698	.62153	1.52270	73,850.95			
Michigan	49,981	4.03545		145,783.72			
Minnesota	46,384	3.74503		142,394.00			
Mississippi	24,646	1.98991		88,905.84			
Missouri	57,108	. 4. 6108 8		169,720.41			
Montana	10,065	.81264		98,287.19			
Nebraska	33,964	2.74224	2.20146	106,770.81			
Nevada	2,935	.23697	1.32780	64,398.30			
New Hampshire		.52029	.43292	20,996.62			
New Jersey New Mexico	7,708	.62234		59,212,68			
New Mexico	5,716	.46151		78,737.81			
New York	48,773	3.93792	5.16949	250,720.27			
North Carolina	36,358	2.93553	2.35839	114,381.92			
North Dakota.	21,548	1.73978	1.56996	76,143.06			
Ohio	61,968	5.00328.	3.85372	186,905.42			
Oklahoma	37,145	2.99908.		115,139.00			
Oregon	11,621	.93828		78,687.37			
Pennsylvania .	54,638	4.41146.					
Rhode Island .	1,093			230,644.17			
South Carolina	21,851	.08825		11,665.71			
	21,001.	1.76424		71,807.64			
South Dakota.	22,362 40,731	1.80550		80,946.02			
Tennessee	40,731	3.28861	2.35368	114,153.48			
Texas	62,181	5.02048.		291,927.81			
Utah	3,806	.30730		56,950.15			
Vermont	8,777.	.70865.,	47102	22,844.47			
Virginia	31,045	2.50656.		99,660.71			
Washington	11,350	91640	1.48215	71,884.28			
West Virginia.	14,417	1.16402	1.09836	53,270.46			
Wisconsin	43,854	3.54076	2.64662,,	128,361.07			
Wyoming	4,844	.39110.		61,196.82			
Total 1,238,548 100.00000 100.00000 4,850,000.00							

FEDERAL MIGRATORY BIRD LAW OPEN SEASONS

(Specially Compiled by American Game Protective Association-Both dates inclusive and from sunrise to sunset only)

	Waterfowl, Coots, and Gallinules	Rails, other than Coots and Gallinules	Black-breasted and Golden Plover and Greater and Lesser	Jacksnipe or Wilson Snipe	Woodcock
Alabama	Nov.: 1-In 31	Sept. 1—Nov. 30	Yellow-legs	37 4 7	
Arizona					
		Closed until 1918	Closed until 1918	Oct 16 70- 21	Nov. 1—Dec. 31
Colorado	. SCUL. /Dec. 40.	Sept. 1-Nov. 30	Sent 1—Dec 15	Sept 7—Dec 20	.Nov. 1—Dec. 31 .Oct. 1—Nov. 30
Connecticut					
Delaware	.Nov. 1-Jan. 31.	. Sept. 1-Nov. 30	. Aug. 16-Nov. 30	Nov 1 lan 31	Novr 1-Dec 21
		Sept. 1Nov. 30	.Aug. 10-Nov. 30	. Nov. 1 lan. 31	Nov 1-Dec 31
Florida	.Nov. 1—Jan. 31.	Sept. 1—Nov. 30	. Nov. 1—Ian. 31	Nov. 1-Jan. 31	Nov 1-Dec 31
° Georgia	.Nov. 1-Jan. 31.	Sept. 1—Nov. 30	.Nov. 1-Tan. 31.	Nov 1-Ten 31	Nov 1-Dec 21
Idaho	.Sept. 7—Dec. 20.	Sept 1-Nov 30	Sent 7—Then 20	Same 7 Dan 20	O-4 4 NT 20
Indiana	.Sept. 16—Dec. 31	. Sept. 1-Nov. 30	.Sept. 1—Dec. 15	.Sept. 16-Dec. 31.,	. Closed until 1918
Tomo	Sept. 10—Dec. 31.	Sept. 1-Nov. 30	.Sept. 1—Dec. 15.,	.Sept. 16—Dec. 31	.Oct. 1—Nov. 30
Kangae	Sept. 16—Dec. 31	.Sept. 1-Nov. 30	.Sept. 1—Dec. 15	.Sept. 16—Dec. 31.	.Oct. 1—Nov. 30
Kentucky	Sept. 16 Dec. 31.	Sept. 1-N.v. 30	.Sept. 1—Dec. 15	.Sept. 16—Dec. 31	.Oct. 1-Nov. 30
Louisiana	Nost 1 Tan 21	.Sept. 1—Nov. 30 .Nov. 1—Jan. 31	Sept. 1—Dec. 15	Sept. 10—Dec. 31	.Closed until 1918
Maine	Sent 16—Dec 31	Sept. 1—Nov. 30	.Nov. 1 Jan. 31	.Nov. 1- Jan. 31	. Nov. 1—Dec. 31
• Maryland	Nov 1-Ian 31	Sept. 1—Nov. 30.	Aug. 16-Nov. 30.,	.Sept. 10—Dec. 31	Oct. 1-Nov. 30
Massachusetts	Sept. 16-Dec. 31	Sept. 1—Nov. 30	Aug. 16-Nov. 30.,	Sept 16 Dec 21	.Nov. 1—Dec. 31 .Oct. 1—Nov. 31
Michigan	Sept. 16-Dec. 31	.Sept. 1-Nov. 30	Sept 1-Dec 15	Sept. 16—Dec. 31	Oct. 1—Nov. 31
Minnesota	Sept. 7-Dec. 20.	.Sept. 1-Nov. 30	Sept. 7—Dec. 20	Sept. 7-Dec. 31.	Oct. 1—Nov. 30
M ississippi	Nov. 1—Jan. 31	Sept. 1—Nov. 30	. Nov. 1-lan. 31	Nov. 1-Tan. 31	Nov 1-Dec 31
Missouri	Sept. 16—Dec. 31	.Sept. 1-Nov. 30	.Sept. 1—Dec. 15	.Sept. 16—Dec. 31	.Closed until 1918
Montana	Sept. 7—Dec. 20	.Sept. 1—Nov. 30	.Sept. 7—Dec. 20	Sept. 7-Dec. 20.	Oct. 1-Nov 30
Nebraska	Sept. 16—Dec. 31.,	.Sept. 1-Nov. 30	.Sept. 1-Dec. 15	.Sept. 16-Dec. 31.	.Oct. 1-Nov. 30
Nevada	Oct. 1—Jan. 15	.Sept. 1-Nov. 30	.Sept. 1-Dec. 15	.Oct. 1-Jan. 15	.Oct. 1-Nov. 30
New Hampshire	Sept. 16—Dec. 31.,	.Sept. 1-Nov. 30	.Aug. 16-Nov. 30	.Sept. 16-Dec. 31	.Oct. 1-Nov. 30
New Jersey	Oct. 1—Jan. 15	.Sept. 1—Nov. 30	.Aug. 16—Nov. 30	.Oct. 1-Jan. 15	.Oct. 1-Nov. 30
New Mexico	Oct. 16—Jan. 31	.Sept. 1-Nov. 30	.Sept. 1—Dec. 15	.Oct. 16-Jan. 31.,	.Nov. 1-Dec. 31
New York	Sept. 10-Dec. 31.	.Sept. 1-Nov. 30	.Aug. 16-Nov. 30	.Sept. 16—Dec. 31	.Oct. 1—Nov. 30
(Long Island) North Carolina	Oct. 1—Jan. 15	.Sept. 1-Nov. 30	Aug. 10-Nov. 30	.Oct. 1—Jan. 15	.Oct. 1-Nov. 30
North Dakets	Nov. 1—jan. 31	.Sept. 1—Nov. 30	Sept. 1—Dec. 13	.Nov. 1 Jan. 31	.Nov. 1—Dec. 31
Ohio	Sept. 1—Dec. 20.,	Sept. 1—Nov. 30	Sept. 1—Dec. 20	Sept. 1—Dec. 20	.Oct. 1—Nov. 30 .Oct. 1—Nov. 30
Oklahoma	Oct 16-1an 31	Sept 1-Nov 30	Sept. 1—Dec. 15	Oct 16—Jan 31	.Nov. 1—Dec. 31
		.Sept. 1—Nov. 30		Oct. 1—Jan. 15	
• Pennsylvania	Oct. 1—Ian. 15	.Sept. 1-Nov. 30.	Sent 1—Dec. 15		
Rhode Island		Sept. 1-Nov. 30	Aug. 16—Nov. 30	Oct. 1-Jan. 15	
South Carolina	Nov. 1-Jan. 31	Sept. 1-Nov. 30	Nov. 1-Jan. 31	Nov. 1-lan. 31	Nov. 1-Dec. 31
South Dakota	Sept. 7-Dec. 20	.Sept. 1-Nov. 30	Sept. 7-Dec. 20	Sept. 7—Dec. 20	.Oct. 1-Nov. 30
Tennessee	Nov. 1-Jan. 31	.Sept. 1-Nov. 30	Sept. 1-Dec. 15	Nov. 1-Jan. 31	.Nov. 1-Dec. 31
Texas	Oct. 16-Jan. 31	.Sept. 1-Nov. 30	Nov. 1-Jan. 31	.Oct. 16-Jan. 31	.Nov. 1-Dec. 31
Utah	Oct. 1-Jan. 15	.Sept. 1-Nov. 30	.Closed until 1918	Oct. 1-Jan. 15	.Oct. 1-Nov. 30
Vermont	Sept. 16-Dec. 31	.Closed until 1918	Sept. 1-Dec. 15	Sept. 16-Dec. 31	.Oct. 1-Nov. 30
• Virginia	Nov. 1-Jan. 31	.Sept. 1-Nov. 30.,	Aug. 16-Nov. 30.	.Nov. 1-Jan. 31	.Nov. 1-Dec. 31
Washington	Oct. 1-Jan. 15	.Sept. 1-Nov. 30	Oct. 1—Dec. 15	Oct. 1-Jan. 15	Oct. 1-Nov. 30
West Virginia	Sept. 16-Dec. 31	.Sept. 1-Nov. 30	Sept. 1—Dec. 15	Sept. 16—Dec. 31	Oct. 1-Nov. 30
Wisconsin	Sept. 7—Dec. 20	.Sept. 1-Nov. 30	Sept. 7—Dec. 20	Sept. 7—Dec. 20	.Oct. 1—Nov. 30 .Oct. 1—Nov. 30
		.Sept. 1-Nov. 30			
No open seasons	on migratory insectiv	orous birds except on	reed-birds or rice-bird	s in states marked ° w	here open season is

Sept. 1-Oct. 31. Band-tailed pigeons, little brown, sand-hill, whooping-cranes, wood ducks, swans, curlew, willet, and all shore birds except as specified, closed all states to Sept. 1, 1918.

NEW BIRD TREATY

The United States Senate on Aug. 29, 1916, ratified the treaty

The United States Senate on Aug. 29, 1916, ratified the treaty with Canada extending to all migratory birds the same protection on both sides of the Canadian border.

The treaty is an important supplement to the Federal law and provides, in effect, three principal things:

(1) That no bird important to agriculture because of insect destroying proclivities shall be shot at any time. (2) That no open season on any species of game birds shall extend for a longer period than three and one-half months. (3) That both countries shall so restrict open seasons on game birds as to prevent their being taken during the breeding season.

The Senate's action came as the result of a campaign waged incessantly for nearly three years by organizations of farmers, sportsmen, bird lovers and conservationists generally under the leadership of the American Game Protective Association of New York, the sportsmen's national organization. The ratification of the treaty means that this country now possesses the most advanced and effective legal protection for wild life of any on the globe. countries shall so restrict open seasons on game birds as to
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any on the globe.

It will secure protection all over the North American continent for some 1,022 species and sub-species of birds, and the
law is of prime importance to farmers, for it means that insectivorous birds will at last get the protection they deserve,
insects.

Permits, however, will be issued for collecting birds for scientific purposes in accordance with the laws and regulations in force in the respective States and the District of Columbia. The following are considered migratory game birds:

(a) Anatidæ or waterfowl, including brant, wild ducks, geese,

and swans.

(b) Gruidæ or cranes, including little brown, sandhill, and whooping cranes.
(c) Rallide or rails, including coots, gallinules, and sora and

THE CLAYTON LAW

The Clayton Trust Bill was passed by the 63rd Congress and approved October 15, 1914. Its purpose is to supplement existing laws against unlawful restraints and monopolies of trade and commerce within any state or territory or the District of Columbia, or any place under jurisdiction of the U. S., excepting the Philippine Islands. The more important provi-

sions of this law are as follows:

sions of this law are as follows:

Sec. 2. It is unlawful for any person engaged in commerce
to discriminate in the price of any commodity sold, where the
effect of such discrimination may be to substantially lessen
competition or tend to create a monopoly in any line of commerce. This does not apply where the discrimination in price
is on account of the difference in grade or quantity, or when
made in good faith to meet competition, or where an allowance
is made for transportation. Neither does it prevent persons
from selecting their own customers in bona fide transactions
and not in restraint of trade.

Sec. 4. Any person who shall be injured in his business by

and not in restraint of trade.

Sec. 4. Any person who shall be injured in his business by reason of anything forbidden in the Anti-Trust laws may sue therefor in the District Court in which the defendant resides or is found or has an agent without respect to the amount in controversy, and shall recover threefold the damages sustained by him and the cost of suit, including a reasonable attorney's fee.

Sec. 6. The labor of a human being is not a commodity or article of commerce. Nothing contained in the anti-trust laws shall be construed to forbid the existence and operation of labor, agricultural, or horticultural organizations, instituted for the purposes of mutual help, and not having capital stock or conducted for profit, or to forbid or restrain individual members of such organizations from lawfully carrying out the legitimate

ducted for profit, or to forbid or restrain individual members of such organizations from lawfully carrying out the legitimate objects thereof; nor shall such organizations, or the members thereof, be held or construed to be illegal combinations or conspiracies in restraint of trade, under the anti-trust laws.

Sec. 7. No corporation engaged in commerce shall acquire stocks of another corporation also engaged in similar commerce where the effect may lessen competition or tend to create a monopoly. This does not apply to corporations purchasing stocks for investments only. Nor shall anything herein, prohibit any common carrier, subject to the laws to regulate commerce, from aiding in the construction of branches or short lines so located as to become feeders of the main line, or from owning stock of such branch lines nor to prevent them from acquiring and owning stock of an independent company, where there is no substantial competition.

Sec. 8. No person who is a director or other officer of a bank,

Sec. 8. No person who is a director or other officer of a bank, banking association or trust company which has deposits, capital, surplus and undivided profits aggregating more than \$5,000,000 shall be eligible to be a director or other officer of

any other banking institution or trust company. This also applies to corporations aggregating more than \$1,000,000. This does not apply to mutual savings banks not having a

anisa does not apply to mutual savings banks not having a capital stock represented by shares.

Sec. 9. Every director, officer or manager of any common carrier, who knowingly converts any of its money or property to his own or another's use shall be guilty of a felony and upon conviction shall be fined not less than \$500 or imprisoned for

conviction snail be nined not less than \$500 or imprisoned for not less than one year or more than ten years or both. Sec. 10. No common carrier engaged in commerce shall have any dealings in securities, supplies or other articles of commerce or shall trade or have any contracts for construction or maintenance of any kind to the amount of more than \$50,000 commerce or shall trade or have any contracts for construction or maintenance of any kind to the amount of more than \$50,000 in the aggregate in any one year with another concern when the said common carrier has on its board of directors or as its president or any employee in the particular transaction, any person who is at the same time a director or employee or who has any substantial interest in such other concern, unless such dealings or purchases shall be made from the bidder whose bid is the most favorable to such common carrier. This is to be ascertained by competitive bidding prescribed by the Interstate Commerce Commission. No bid shall be received unless the name and the addresses of the officers, directors and general managers thereof accompanies the bid. Any person who shall prevent or attempt to prevent any one from bidding shall be punished. Any such common carrier having any such transactions shall within 30 days after making the same file with the Interstate Commerce Commission a full and detailed statement showing the manner of competitive bidding and who the bidders were, with their names and addresses. After investigation, if the commission have reasons to believe that the law has been violated, it shall transmit all papers and documents and its own views and findings to the Attorney-General. If the common carrier shall violate this section it shall be fined not more than \$25,000 and the person who knowingly constituted that volation shall be fined not exceeding \$5,000 or imprisoned for not more than one year or both.

violation shall be fined not exceeding \$5,000 or imprisoned for not more than one year or both.

Sec. 11. The authority to enforce compliance with sections 2, 7, and 8 is invested in the Interstate Commerce Commission where applicable to common carriers, in the Federal Reserve Board to banks, banking associations and trust companies, in the Federal Trade Commission to all other characters of commerce, to be exercised under the jurisdiction of the Circuit Court of Appeals; such proceedings shall be given precedence over other cases pending therein.

Sec. 25. No proceedings for contempt shall be instituted unless begun within one year from the date of the act complained of

SHERMAN ANTI-TRUST LAW Bill passed by the 51st congress and approved July 2, 1890.

Section 1. Every contract, combination in the form of trust or otherwise, or conspiracy in restraint of trade or commerce among the several states or with foreign nations, is hereby declared to be illegal. Every person who shall make any such contract or engage in any such combination or conspiracy shall be deemed guilty of a misdemeanor, and on conviction thereof, shall be punished by fine not exceeding \$5,000 or by imprisonment not exceeding one year, or by both said punishments, in the discretion of the court.

Sec. 2. Every person who shall mecondize as attempt to

the discretion of the court.

Sec. 2. Every person who shall monopolize or attempt to monopolize or combine or conspire with any person or persons to monopolize any part of the trade or commerce among the several states or with foreign nations shall be deemed guilty of a misdemeanor, and on conviction thereof shall be punished by fine not exceeding \$5,000 or by imprisonment not exceeding one year, or by both said punishments in the discretion of the court. Sec. 3. Every contract, combination in form of trust or otherwise, or conspiracy in restraint of trade or commerce in any territory of the United States or of the District of Columbia, or in restraint of trade or commerce between any such territory and

territory of the United States or of the District of Columbia, or in restraint of trade or commerce between any such territory and another, or between any such territory or territories and any state or states or the District of Columbia, or with foreign nations, or between the District of Columbia, or with foreign nations, or between the District of Columbia and any state or states or foreign nations, is hereby declared illegal. Every person who shall make any such contract or engage in any such combination or conspiracy shall be deemed guilty of a misdemeanor, and on conviction thereof shall be punished by fine not exceeding \$5,000 or by imprisonment not exceeding one year, or by both said punishments, in the discretion of the court.

Sec. 4. The several Circuit courts of the United States are hereby invested with jurisdiction to prevent or restrain violations of this act; and it shall be the duty of the several district attorneys of the United States, in their respective districts, under

the direction of the attorney-general, to institute proceedings in equity to prevent and restrain such violations. Such proceedings may be by way of petition setting forth the case and praying that such violation shall be enjoined or otherwise prohibited. When the parties complained of shall have been duly notified of such petition the court shall proceed; as soon as may be, to the hearing and determination of the case; and pending such petition and before final decree the court may at any time make such temporary restraining order or prohibition as shall be deemed just in the premises.

Sec. 5. Whenever it shall appear to the court before which any proceeding under section 4 of this act may be pending that the ends of justice require that other parties should be brought before the court, the court may cause them to be summoned, whether they reside in the district in which the court is held or not; and subpecnas to that end may be served in any district by the marshal thereof.

Sec. 6. Any property owned under any contract or by any

Sec. 6. Any property owned under any contract or by any combination or pursuant to any conspiracy (and being the subject thereof) mentioned in section 1 of this act and being in

subject thereof) mentioned in section 1 of this act and being in the course of transportation from one state to another or to a foreign country shall be forfeited to the United States and may be seized and condemned by like proceedings as those provided by law for the forfeiture, seizure and condemnation of property imported into the United States contrary to law.

Sec. 7. Any person who shall be injured in his business or property by any other person or corporation by reason of anything forbidden or declared unlawful by this act may sue therefor in any Circuit court of the United States in the district in which the defendant resides or is found, without respect to the amount in controversy, and shall recover threefold the damages by him sustained and the cost of suit, including a reasonable attorney's fee.

FEDERAL TRADE COMMISSION

"An act to create a Federal Trade Commission, to define its An act to create a Federal Trade Commission, to define its powers and duties, and for other purposes," approved September 26, 1914, provides for a commission consisting of five members. Further specific powers are conferred upon this commission by "An act to supplement existing laws against unlawful restraints and monopolies, and for other purposes" (the Clayton Act), approved October 15, 1914.

INVESTIGATION, PUBLICITY, AND RECOMMENDATION

The commission is authorized to require corporations subject to its jurisdiction to file reports, or written answers to specific questions regarding the organization and management of their business, or their relations to other corporations, partnerships, or individuals. Furthermore, the commission is authorized to classify such corporations, and to make rules and regulations for this purpose.

The commission is given also a general power of investigation in respect to such corporations and their relations to other corporations, individuals, associations, and partnerships.

Upon the direction of the President or either House of Congress, the commission is authorized to investigate and report concerning any alleged violations of the antitrust acts by any

It is also authorized to investigate trade conditions in foreign

At is also authorized to investigate trace countines in toreign countries with respect to combinations or other conditions affecting the foreign trade of the United States.

If, in any suit in equity brought by the Government under the antitrust acts, upon the conclusion of the testimony the court is of the opinion that the complainant is entitled to relief, it may refer the matter to the commission as a master in chan-

it may refer the matter to the commission as a master in chancery to ascertain and report an appropriate form of decree. Whenever a final decree has been entered against any corporation in a suit to restrain violations of the antitrust acts, the commission is authorized to make an investigation of the manner in which the decree is carried out, and it is required to make such investigation upon the application of the Attorney General. In the latter case it is required to transmit a report of its findings and recommendations to the Attorney General, and may publish such report in its own discretion.

The commission is authorized to make public such portions of the information obtained by it in accordance with law as it shall deem expedient in the public interest, except trade secrets and the names of customers, and, further, to make annual and special reports to Congress with recommendations for legislation, and to provide for the publication of its reports and decisions. It is specially provided that any officer or employee of the commission who without its authority shall make public any information obtained shall be guilty of a misdemeanor and be punishable by fine and imprisonment.

COMPULSORY POWERS, PENALTIES, AND MISCELLANEOUS

COMPULSORY POWERS, PENALTIES, AND MISCELLANEOUS PROVISIONS

Any member of the commission may sign subpænas, and

Any member of the commission may sign subpersas, and members of the commission or the examiners of the commission may administer oaths and receive evidence.

In case of refusal to obey a subpensa the commission may invoke the aid of the courts of the United States, which may order compliance therewith, and on failure punish the delinquents for contempt. Moreover, upon application of the Attorney General, at the request of the commission, the courts have juris-

diction to issue writs of mandamus requiring any person or corporation to comply with the law or any order of the commission in pursuance thereof.

The commission is also authorized to take testimony by

The commission is also authorized to take testimony by deposition.

No person is excused from testifying or producing evidence before the commission on the ground that it might tend to incriminate him or to subject him to penalty or forfeiture, but it is provided that no natural person shall be criminally prosecuted on account of any transaction concerning which he may testify or produce evidence, if furnished in obedience to a subpena, except in case of perjury.

Penalties of fine and imprisonment are provided for those who neglect or refuse to answer any lawful inquiry in obedience to a subpena or lawful requirement of the commission, and who falsify records, fail to keep proper records, or refuse the commission lawful access to the same, and penalty of fine for corporations which delay to file such reports as the commission may lawfully require, such fines to be recoverable by the United States in a civil suit.

Relations of the commission to legislative, judicial, and other executive departments.—The Federal Trade Commission is organized in a manner similar to that of the Interstate Commerce Commission, and its relations to the legislative, judicial, and other executive departments of the Government are defined in the law.

Ithe the Interstate Commerce Commission, it is made in-

fined in the law.

Like the Interstate Commerce Commission, it is made independent of any of the other executive departments. In addition to the general executive direction reposed by the Constitution and laws in the President, this law provides specifically that the commission shall, at his direction, investigate alleged violations of the antitrust acts by any corporation. In this connection it may be noted that the President is authorized to direct the several departments and bureaus of the Government to furnish the commission, upon request, all records and information in their possession relating to any corporation subject to this act. The commission may also be called upon to perform certain of its functions at the request of the Attorney General, namely, in investigating the execution of decrees against trusts and in making investigations and recommendations for bringing corporations alleged to be violating the antitrust acts in harmony with the law.

The law provides that either House of Congress may direct the commission to investigate and report the facts relating to any alleged violation of the antitrust acts by any corporation. It is also provided that the commission shall have power to make annual and special reports to Congress and recommendations for additional legislation, as well as reports regarding its investigations into conditions in foreign countries affecting the trade of the United States.

More important, however, are the relations of the commission to the invited of the commission. Like the Interstate Commerce Commission, it is made in-

trade of the United States.

More important, however, are the relations of the commission to the judicial department, which has jurisdiction to review and enforce its orders respecting unfair methods of competition or violations of the Clayton Act, and to which the commission must apply for the enforcement of its compulsory powers.

The commission consists of the following members:

CHAIRMAN, Joseph E. Davies.

VICE CHAIRMAN, Edward N. Hurley.

William J. Harris, Will H. Parry.

COMMISSION THE TARIFF

The Revenue Act approved September 8, 1916, created a tariff commission composed of six members, not more than three of the same political party. The salary of each commissioner is \$7,500 per annum.

DUTIES

The duty of the commission is to investigate the administration and fiscal and industrial effects of the customs laws of this country now in force or which may be hereafter enacted, the relations between the rates of duty on raw materials and finished products, the effects of ad valorem and specific duties and all questions relative to the arrangement of schedules and classification of articles in the customs law, and, in general, to investigate the operation of customs laws, including their relation to the Federal revenues, their effects upon the industries and labor of the country.

The commission shall put at the disposal of the President, the Committee on Ways and Means of the House of Representatives, and the Committee on Finance of the Senate, whenever requested, all information at its command, and make such

investigations and reports as may be requested by them, and report to Congress each year.

The commission has the power to investigate the tariff relations between the United States and foreign countries, commercial treaties, preferential provisions, economic alliances, the effect of export bounties and preferential transportation rates, the volume of importations compared with domestic production and consumption, and conditions, causes, and effects relating to competition of foreign industries with those of the United States, including dumping and cost of production.

For the purposes of carrying this title into effect, the commission has the right to copy any document or record, pertinent to the subject-matter under investigation, in the possession of any person or concern, to summon witnesses, take testimony and to administer oaths. In appropriate matters, the commission acts in conjunction and coöperation with the Treasury Department, the Department of Commerce, the Federal Trade Commission, or any other departments, or independent establishments of the Government.

OPERATING RETURNS OF PRINCIPAL RAILWAYS OF UNITED STATES

Compiled from returns to the Interstate Commerce Commission for Fiscal Year ending June 30, 1916 Average Income Expenses Net revenue Taxes miles Revenues operated EASTERN DISTRICT: 2,638,094. 1,237,004. 204,897. 1,032,091 9,370,575. 3,116,068. 449,587. 2,665,024 24,549,635. 10,041,422. 1,058,543. 8,976,012 12,486,643.. 34,591,057..

 Vandalia
 917.23.

 Wabash
 2,519.06.

 2,454,349. 597,529. 22,797,008. 11,648,102. 8,845,067. 3,722,551. 31,789,179. 16,449,833. 3,995,586. 3,208,896. 51,173,728. 17,903,615. 39,790,481. 20,527,512. 8,533,737. 3,334,301. 9,439,033. 3,231,655. 32,181,346. 25,123,240. 3,068,148. 1,523,776 158,254., 439,092 1,793,831., 9,838,827 639,520., 3,067,289 1,587,407., 14,842,218 326,855., 2,881,417 3,724,021.. 14,155,087 2,237,583.. 18,265,906 406,384.. 2,925,200 325,251.. 2,903,144 3,068,148... 1,523,776... 148,391. 1,150,825. 2,916,427. 286,100. 3,259,486 3,992,186 148,391. 1,371,975 .150.825. 6.893.067 8.052,158. 46,041,116.. 23,956,559... 3,844,626.. 8,928,039.. 3,545,756.. 4,624,392.. 45,071,859. 5,327,652. 39,711,168 4,723,494. 566,839. 4,147,140 29,361,537. 4,741,527. 24,606,707 40,645,731. 4,449,290. 36,186,893 4,350,847. 553,129. 3,787,048 67,553,414.. 11,601,794.. 61,952,329.. 11,601,79%.
61,952,329.
29,361,357.
61,952,329.
29,361,357.
10,716,498.
4,350,847.
553,129.
3,767,204.
69,120,958.
36,525,526.
5,264,331.
31,222,860.
52,226,249.
924,864.
116,703.
807,294.
52,308,871.
19,880,405.
3,450,278.
16,399,678.
12,958,838.
6,563,725.
1,022,053.
5,535,335.
5,652,448.
2,990,929.
459,558.
2,531,015.
14,739,411.
10,150,673.
1,091,461.
9,057,705.
2,482,149.
1,024,643.
251,683.
772,711.
5,924,268.
4,747,359.
471,367.
4,275,680.
3,581,557.
2,240,923.
201,636.
2,039,287.
3,515,071.
3,516,318.
596,447.
2,912,587.
43,862,972.
37,370,120.
5,130,379.
32,234,834.
12,672,696.
2,753,238.
724,839.
2,021,729.
4,665,365.
1,818,802.
361,905.
1,454,397.
7,339,224.
2,081,067.
418,677.
1,660,408.
1,928,996.
1,537,712.
14,391,284.
1,651,368.
1,528,996.
1,537,712.
14,391,284.
1,652,167.
1,660,408. 4,005,305. 1,1816,007. 418,677. 1,660,408 19,081,068. 15,928,996. 1,537,712. 14,391,284 25,794,345. 6,691,163. 1,650,167. 5,029,973 24,844,131. 6,744,925. 1,293,988. 5,422,237 40,366,412. 35,572,819. 12,810,584. 12,172,374. 1,615,864... 10,551,561 1,192,503... 4,406,384 2,093,945... 13,434,112 1,558,492... 7,754,523 15,547,250. 2,093,993. 18,935,152 9,343,360. 1,558,492. 7,754,523 3,415,684. 387,775. 3,025,405 4,566,178. 578,886. 3,986,282 44,264,171. 5,068,112. 39,176,237 4,56,990. 1,792,766 4,624,543.. 6,678,177.. 55,033,112... 35,116,135, 656,980... 1,792,766 920,438... 4,410,635 2,502,331... 25,846,692 349,174... 2,327,406 28,360,963.. 2,678,112.. 33,925,738.. 4,787,892..

CANADA AREA, POPULATION AND PROVINCE CAPITALS

Provinces	Area square mil	Population 1911	Per cent. increase in 10 years	Density per sq. mile	Capitals
Alberta British Columbia. Manitoba New Brunswick Nova Scotia Ontario. Prince Edward Island Quebec Saskatchewan Yukon Territory Northwest Territories	355,855 251,832 27,985 21,427 260,862 2,184 351,873 251,700 207,076	374,663 392,480 455,614 351,889 492,338 2,523,274 93,728 2,003,232 492,432 8,512 18,481	413.08 119.68 78.52 6.27 7.13 15.58 -9.23 21.46 439.48 -68.73 -15.79	1.47 1.09 1.80 12.61 22.98 9.67 42.91 5.69 1.95	Edmonton Victoria Winnipeg Fredericton Halifax Toronto Charlottetown Quebec Regina Dawson Ottawa*
Total	3,729,663	7,206,643	34.13	1.93	

* The Northwest Territories are governed by a commissioner and council at the National Capital. NOTE.—For population of cities and towns see index.

THE GOVERNMENT Executive

The chief executive officer of Canada is the Governor-General, who receives his appointment from the King of England and holds office for five years. His salary of \$50,000 per year is paid by the Dominion of Canada. Victor Christian William Cavendish, ninth Duke of Devonshire was appointed to this position on June 27, 1916.

The Governor-General is assisted by a Council composed of fifteen heads of departments of which the Premier is the President. Rt. Hon. R. L. Borden became the Premier Oct. 11, 1911, following an election in which reciprocity with the United States was the chief issue.

THE CABINET
Premier and President of Privy Council—Sir Robert
Laird Borden.
Secretary of State and Minister of Mines—Hon. Pierre
Blondin.
Minister of Trade and Commerce—Sir George Eulas ... \$12,000 7,000 Minister of the Interior—Hon. Wm. J. Roche......

Minister of Public Works—Hon. Robert Rogers...

Minister of Militia and Defeace—Hon. A. E. Kemp...

In Great Britain—Sir George Perley...

Minister of Railways and Canals—Hon. Francis 7,000 7,000 7,000 7,000 Minister of Railways and Canals—Hon. Francis Cochrane.

Minister of Finance—Hon. Sir Wm. Thomas White... Postmaster General—Hon. T. Chase Casgrain.

Minister of Marine and Fisheries and Minister of the Naval Service—Hon. John D. Hazen.

Minister of Agriculture—Hon. Martin Burrell.

Minister of Justice—Hon. Charles J. Doherty...

Minister of Customs—Hon. John D. Reid....

Minister of Inland Revenue—Hon. Esioff L. Patenaude Minister of Inland Revenue—Hon. Esioff L. Patenaude Minister of Labor—Hon. T. W. Crothers.

Without Portfolio—Hon. James A. Lougheed Solicitor General—Hon. Arthur Meighen.... 7,000 7,000 7,000 7,000 7,000 7,000 7,000

Legislative The Parliament of Canada is composed of a Senate and ouse of Commons. There are now 96 senators and 221 House of Commons.

Sena:	Members tors of House
Ontario	86
Ouebec	
Nova Scotia 10	
New Brunswick	13
Manitoba 6	. 10
British Columbia 6	1 7
Prince Edward Island 6	トイ・ <i>寺</i> 。
	100
Saskatchewan	10
Yukon Territory	· A

The term of the Senators is for life each receiving his appointment from the crown on the nomination of the Governor-General. The salary is \$2,500, with the exception of the Speaker who receives \$4,000.

The members of the House of Commons are elected by their

respective constituencies for a term of five years unless sooner dissolved. Their salaries are the same as those of the Senators. but the Leader of the Opposition receives \$7,000 in addition; \$15 a day is deducted for absences.

Judicial

The highest court in the Dominion is the Supreme Court, composed of a Chief Justice and five judges, each of whom receives a salary of \$9,000 per annum except the Chief Justice, who is paid an additional \$1,000. These judges have civil, criminal and appellate jurisdiction throughout Canada. From the decisions of this court the only tribunal to which appeal can be made is to the Judicial Committee of the Imperial Privy Council of Great Britain. The only other Federal Court is the Exchequer Court, presided over by a single judge for trying cases connected with the revenue. Salary \$8,000.

PROVINCIAL GOVERNMENTS

The Provinces have each a separate administration at whose head is a Lieutenant-Governor appointed by the Governor-General. The provinces have full powers of local government. The organization of the legislative department varies in different provinces.

LITERACY OF TOTAL POPULATION 5 YEARS OF AGE AND OVER

Provinces	Population	Can	Cannot
	5 years and	read and	read or
	over	write	write
Alberta	328,431	283,513	43,720
	356,745	314,183	41,549
	393,360	339,510	52,651
	306,981	261,160	43,199
	433,860	384,605	44,897
	2,261,336	2,106,668	147,420
	83,795	76,259	6,383
	1,712,843	1,482,628	217,316
	421,630	362,768	57,936
	8,006	6,843	1,087
	16,148	4,795	11,182
Total	6,323,135	5,622,932	667,340

THE DANISH

The islands known under the above title comprise three small islands of the Virgin Group of the West Indies—St. Thomas,



St. John, and St. Croix or Santa Cruz. These islands, lying directly east-ward from Porto Rico and at the entrance to the Caribbean Sea, command the trade route from Europe to the Panama Canal and to Central and South American ports.

American ports.
They form a crown colony of Denmark and are administered by a governor who is aided by a crown council. The governor resides for half the year in St. Thomas, and in St. Croix for the rest. Danish is the official language and it is taught in the schools for certain

are mainly colored people, who may be divided into the following classes: (1) African Negroes, (2) a mixture of Europeans and Africans, (3) coolies from India, (4) Chinese, and (5) aboriginal Indians. The white population, whether immigrant or West Indian born, includes representatives of Denmark, Great Britain, France, Spain, Germany, and the United States.

INTEREST OF THE UNITED STATES IN THE DANISH WEST INDIES

The Danish islands have had many owners since Columbus first sighted them in 1493. Santa Cruz has been in succession Spanish, English, Dutch, French, Maltese, and Danish. St. Thomas has changed owners as many times, but for over a century Denmark has kept her West Indian colony. It was during the Civil War that the Government of the United States began to feel the need of a naval station for coaling, repairs, and refuge, somewhere on the Caribbean Sea. Negotiations with Denmark were begun by Mr. Seward early in 1865, before the war was ended, but the Danish Government was not favorably inclined. In December of the same year, after a new ministry had taken office at Copenhagen, our Government again made overtures for the islands and the Danish Government, now inclined to consideration, asked how much the United States would pay for the three islands. After an investigation the value of the islands was systematically appraised and the United States offered three million dollars in gold—subject to the Senate's ratification of a treaty to that effect. Denmark hesitated, partly through fear of Prussia, but mainly because of the attitude of France. The latter country revived an old claim to Santa Cruz. That island had been given by Louis XIV to the Knights of Malta, and they had sold it to Denmark he in 1713, but stipulated that she should never alienate it without the consent of France. Louis Napoleon

WEST INDIES

was hostile because the United States had thwarted his plot for the conquest of Mexico. He refused assent to the cession of Santa Cruz to the United States. In 1867, when the islands were governed at a loss to the mother country, a treaty was concluded under which the United States agreed to buy St. Thomas and St. John for 7½ million dollars; but, although the suggestion first emanated from the United States, the Senate refused to ratify the treaty, which finally lapsed on April 14, 1870. In 1892 and again in 1896 Denmark made overtures to the United States, but met with no encouragement. In 1902 another treaty was made ceding all three islands to the United States for 5 million dollars, but the upper house of the Danish Parliament rejected it. There has been dissatisfaction on the part of the mother country because the colony has become a financial burden instead of a source of profit. The people of the islands have grievances, too, and have protested to the king. They have little sentimental attachment to Denmark and many have emigrated to Porto Rico and to the States. Lincoln, Grant, Roosevelt, were foiled in their efforts to get possession of the Danish Islands. They failed, partly because of the short-sightedness and petty political bias of the Senate, and partly because of the secret intrigues of foreign governments. was hostile because the United States had thwarted his plot for

ST. THOMAS lies 38 m. E. of Porto Rico, in latitude 18° 20' N., and longitude 64° 55' W. It is about 13 m. long, varies Sr. Haoma lies 38 m. E. of Forot Noto, in Institute 18 20 M., and longitude 64° 55′ W. It is about 13 m. long, varies in width from 1 to 4½ m. and has an area of 33 sq. m. It consists of a single mountain ridge, the peaks of a submerged range, culminating near its center in West Mountain (about 1600 ft.). The climate is tropical, varying in temperature between 70° and 80° F., but the heat is tempered by sea breezes. The average rainfall is 45 to 50 in.; earthquakes occur at rare intervals and destructive hurricanes occasionally visit the island. The only town, Charlotte Amalie, lies on the south coast, at the head of one of the finest harbors in the West Indies. This is an almost land-locked bay, nearly 3½ m. in width, varying in depth from 26 to 36 ft., entered by a narrow channel only 300 ft. in width. It is provided with a floating dock and a repairing yard. St. Thomas is chiefly important as a coaling and supply station for ships plying to and from the West Indies and South American ports. The soil is sandy but only a small part of the Island is under cultivation. The production of cane-sugar, which at one time was the chief industry, declined with the beet sugar competition. Aloes, fibrous plants, and fruit are grown.

ST. JOHN lies 4 m. E. of St. Thomas, is 10 m. long and 2½ wide, and has an area of 21 sq. m. It is a rugged, mountainous mass, which culminates in Camel Mountain (1300 ft.). It is one of the best watered and most fertile islands of the Virgin Group, but it has little commerce. It is a free port, and in Coral Bay possesses the best harbor of refuge in the West Indies.

Coral Bay possesses the best harbor of refuge in the West Indies. Cruxbay, a village on the northern coast, is the chief place.

SANTA CRUZ OF ST. CROIX lies 65 m. E. S. E. of Porto Rieo, in latitude 17° 45' N., and longitude 64" 41' W. Arca, 84 sq. m. It is generally flat, well watered, and fertile. The climate is hot and at times unhealthy. The greater portion of the island is in sugar cane plantations. Rum and molasses are the leading manufactured products. Christiansted (frequently called Bassin) is the chief town and the residence of the governor of the colony for six months in the year, (see St. Thomas). The town is built on the N. E. coast and it has a small but excellent harbor, with forts and garrison. harbor, with forts and garrison.

INTERNATIONAL LAW

A Declaration of the Rights of Nations, applying to the countries of the world the principles of human rights set forth in the American Declaration of Independence, was prepared by the American Institute of International Law, which is composed of 105 members—five from each of the twenty-one American republics. This institute drafted the declaration during the 1916 sessions of the Pan-American Scientific Congress at Washington, D. C.

The declaration set forth the following five international principles:

1. Every nation has the right to exist, to protect and to conserve its existence; but this right neither implies the right nor justifies the act of the State to protect itself or to conserve its existence by the commission of unlawful acts against innocent and unoffending States.

2. Every nation has the right to independence in the sense that it has a right to the pursuit of happiness and is free to de-

velop itself without interference or control from other States provided that in so doing it does not interfere with or violate the just rights of other States.

3. Every nation is in law and before law the equal of every other State composing the society of nations, and all States have the right to claim, according to the Declaration of Independence of the United States, "to assume among the Powers of the earth the separate and equal station to which the laws

of nature and of nature's God entitle them."

4. Every nation has the right to territory within defined boundaries and to exercise exclusive jurisdiction over this territory and all persons whether native or foreign found

5. Every nation entitled to a right by the law of nations is entitled to have that right respected and protected by all other nations, for right and duty are correlative and the right of one is the duty of all to observe.

RULERS OF THE WORLD

Country Present Head Date of Birth	Accession
Abyssinia Quizero Zeoditu Queen	Sept. 30, 1916
	Oct. 3, 1901
Tipolito Irigoven President	Oct. 12, 1916
	12, 1910
Austria	.Nov. 22, 1916
nungary " " King	.1107. 22, 1910
Beigium Albert King Apr 9 1975	Dec. 17, 1909
Dilutali Sir Haven Wanachulz Maharaja	1907
DONALD Senor Dr Ismael Montes President	Aug. 15, 1913
Drazil Senhor Wenceslan Braz Paraira Comos Desaidant	36- 4 4044
Dulgana Feb 26 1861	. Aug. 14, 1887
Juan Luia San Fuentes, President	Dec. 23, 1915
China Li-Yuan-Hung, President 1864	.June 6, 1916
Colombia. Don José Vicente Concha, President.	Aug. 7, 1914
Costa RicaAlfredo Gonzalez Flores, President	May 8, 1914
Cuba. General Mario G. Menocal, President Denmark. Christian X, King. Sept. 26, 1870.	May 20, 1913
Dominican Republic	. May 14, 1912
Ecuador	July 31, 1916
France	Jan. 11, 1916
German Empire Wilhelm II Carman Emperor and Ving of Pagaia La 27 1906	.Jan. 17, 1913
German Empire Wilhelm II, German Emperor and King of Prussia Jan. 27, 1859. Greece Konstantinos, King Aug. 2, 1868.	June 15, 1888
Guatemala Don Manuel Estrada Cabrera, President	Mar. 15, 1913
Haiti General Sudre Dartiguenave, President	Aug. 12, 1915
Honduras Dr. Don Francisco Bertrand, President	Mar. 21, 1913
Italy Vittorio Emanuele III, King Nov. 11, 1869.	Tuly 20 1000
Japan	July 30 1912
Liberia Hon. Daniel Howard, President. Luxemburg. Marie-Adelaiee, Grand Duchess. June 14, 1894.	Ian 1912
Luxemburg. Marie-Adelaide, Grand Duchess. June 14, 1894	.Feb. 26, 1912
Mexico	1915
Monaco	.Sept. 10, 1889
Montenegro Nicholas I, King Oct. 7, 1841	. Aug. 14, 1860
Morocco	Aug. 18, 1912
Nepal	. Dec. 11, 1911
Netherlands	
NicaraguaGeneral Emiliano Chamorro, President	Oct. 2, 1916
Norway Haakon VII, King Aug. 3, 1872.	Nov. 18, 1905
Oman	Oct. 5, 1913 Oct. 1, 1916
Panama	Oct. 1, 1916 Aug. 15, 1916
Persia Sultan Ahmad Shah, Shah Jan. 20, 1898.	Tuly 16 1000
rema. Suntan Anniau Shani. Shani. 20, 1696. Peru. Dr. José Pardo, President.	May 15, 1914
Portugal Senhor Bernardino Machado, President	Oct. 5, 1915
Roumania	Oct. 11 1914
Russia	Oct. 20, 1894
Salvador Don Carlos Melendez, President	Mar. 1, 1915
Serbia Peter I. King June 29, 1844.	Tune 2, 1903
Chowfa Maha Vajirayudh, King	Oct. 23, 1910
Spain Alphonso XIII King	May 17, 1886
Constant V Ving	1)ec 8 1007
Sweden Outside Anne 1862 Switzerland Camille Decoppet, President 1862 Turkey Mohammed V, Sultan Nov. 3, 1844 Turkey 1985	Jan. 1, 1916
Turkey	Apr. 27, 1909
United Kingdom of Great Britain and Ireland, George V. King and Emperor	iviay u, 1910
Uruguay Dr. Feliciano Viera, President	Mar. 1, 1915
VenezuelaGeneral Juan Vicente Gómez, President	Apr. 19, 1914

†Will probably be succeeded by Vice-President Edmund Schulthess in 1917

SALARIES OF PRESIDENTS OF THE LATIN AMERICAN REPUBLICS

Argentina.—96,000 pesos paper and 28,800 pesos paper for official expenses. (Argentine peso paper equal to about 43 cts.,

U S. Cur.)
BOLIVIA.—18,000 bolivianos. (Boliviano equals \$0.389 U. S.)
BRAZIL.—120,000 milreis (about \$36,000) gold.
CHILE.—1,334 pounds, with 923 pounds for expenses. (The
Chilean pound is of same value as the pound sterling.)
COLOMBIA.—\$18,000 gold.
COSTA RICA.—15,840 colones (about \$7,365).
CUBA.—\$25,000.
DOMINICAN REPUBLIC.—\$9,600.
ECUADOR.—24,000 sucres. (Sucre equals \$0.487.) (About \$12,000.)

GUATEMALA.-60,000 pesos paper (about \$3,600).

HAITI.—4,800 pounds (about \$24,000). HONDURAS.—42,000 pesos (about \$16,800). MEXICO.—50,000 pesos (\$25,000). NICARAGUA.—24,000 pesos (about \$9,600). PANAMA.—\$18,000.

PANAMA.—\$18,000.

PARAGUAY.—8.000 pesos paper per month. (Silver peso worth \$0.363. Paper peso fluctuates, exchange rate April 1, 1915, being 1,550%.)

PERU.—48,000 soles (4,800 pounds) per year. An amount for expenses is fixed by Congress each year.

SALVADOR.—\$9,600.

URUGUAY.—\$36,000.

URUGUAY.—\$36,000.

VENEZUELA.—108.000 bolivares. (about \$20,844) for salamounts.

VENEZUELA.—108,000 bolivares (about \$20,844) for salary and expenses.

CHRONOLOGY OF THE MEXICAN REVOLUTIONS

1910

April.-Porfirio Diaz "the Dictator," elected President for

April.—Forerio Diaz de Dictator, elected Plesacent for eighth consecutive term.

Oct. 7.—Francisco I. Madero Jr., prosecuted by Diaz for instigating discontent among people, took refuge in Texas, where he perfected plans for a revolutionary movement against the Diaz administration.

Nov. 19.—Madero crossed the Rio Grande and raised his stendard, joining forces with rebel band, organized by Pascul Correct.

cual Orozco Nov. 23.—Madero proclaimed himself provisional President.

May 10.—Juarez captured by Madero, who made that city his April 25.—Argentina, Brazil and Chill extend their "good of-capital." toward mediation.

Oct. 2 .- Madero elected President.

1912

February—Reactionary movement broke out, led by Orozco
with five thousand men at his command. Madero appointed General Huerta commander of Federal forces. Rebels driven back. Huerta arrests "Pancho" Villa, who was sentenced to death for alleged insubordination. Villa removed to Mexico City by order of Madero, and there allowed to mence the conference of the conference o lowed to go free.

Oct. 16.—Gen. Felix Dias, nephew of Porfirio Diaz, seized the port of Vera Crus. Madero's troops surrounded Vera Crus. Diaz imprisoned.

Peb. 8.—Diaz escaped from prison, took command of 1,500 soldiers and demanded the resignation of Madero. His plan was to put Gen. Reyes in the presidential chair. On Madero's relusal, a five day combat followed in Mexico City in which Reyes was killed.

Feb. 18.—Generals Huerta and Blanquet rebelled against Madero's orders and joined hands with his enemies. Huerta elected provisional President.

Feb. 19.—Madero compelled to resign. Held a virtual prisoner in the National Balace.

reo. 19:—anadero compened to resign. Held a virtual prisoner in the National Palace.
Feb. 23.—Madero and Suarez shot "while trying to escape" in transfer from National Palace to prison.
March 11.—President Wilson issued mandate refusing to recognize the Mexican Government.

nize the Mexican Government.

April 1.—Huerta opened new session of Mexican Congress.

April-May.—Constitutionalist party organized with General
Carranza, governor of Coahuila, as provisional President.

"Pancho" Villa an important leader in this party.

May 9-12.—Battle near Guaymas between Federals and Constitutionalists, resulting in defeat of Federal forces.

Oct. 1.—Villa's forces occupied Torreon, a severe blow to the

April 9.—Launch of the U. S. gunboat *Dolphin* sent ashore at Tampico for supplies. The marines were arrested and imprisoned. Admiral Mayo demanded the release of the marines, a formal apology and an official salute to the American flag. The two former were granted but the salute was postponed.

April 19.—Huerta refused the request of the United States
that he salute the flag by 6 P. M., April 19.

April 21.—Admiral Fletcher seized the custom-house at Vera

Cruz. April 24.—After three days of fighting, Vera Cruz was entirely occupied by American sailors and marines with a loss of

17 men

May 25.—President Diaz resigned. Madero gave up the post of provisional President to Francisco Leon de la Barra.

May 31.—Diaz sailed for Europe.

April 29.—Huerta accepted provisionally the suggestions for mediation; General Carranza also accepted on behalf of Constitutionalists but reserved the right to himself to enter

April 30.—Naval forces gave over occupation of Vera Cruz to the Army and General Funston took command.

President and established his capital at satisfic.

June 15.—Constitutionalist forces under Gen. Natera defeated
at Zacatecas. Villa immediately assumed control.

June 23.—Villa captured Zacatecas.

June 27.—Aguascalientes captured by Villa.

July 5.—Huerta elected President.

July 8.—Guadalajara captured by Carranza's forces.

July 16.—President Huerta resigned, appointing Francisco

Carbajal as provisional President.

July 22.—Armistice between Mexican Government and Constitutionalists signed and all hostilities suspended.
July 29.—Carranza demanded surrender of Carbajal.

Aug. 7.—Carbajal opposed Carranza's demand.
Aug. 10.—Carbajal resigned.
Aug. 13.—Carbajal and his cabinet abandoned Mexico City.
Aug. 15.—Gen. Obregon led the Constitutionalist army into

Aug. 15.—Gen. Obregon red.

Mexico City.

Aug. 20.—Carranza entered Mexico City, appointed his cabinet and repudiated Carbajal's \$10,000,000 bond issue.

. 23.—Villa declared war on Carranza. Made Torreon his headquarters, while Carranza concentrated his forces

at Zacatecas.

Sept. 25.—Carranza's troops defeated at Santa Barbara.
Sept. 28.—Villa demanded that Carranza turn Government over
to F. I. Calderon as price of peace.
Oct. 1.—Peace Conference held at Zacatecas between Carranza

stitutionalists, resulting in defeat of Federal forces.

Oct. 1.—Villa's forces occupied Torreon, a severe blow to the Federals.

Oct. 10.—Huerta, who had accused the members of Congress of hostility toward his rule, declared Congress dissolved, seized about 130 members and imprisoned them. He ananounced that an election would take place Oct. 26.

Oct. 12.—20,000 U. S. soldiers were encamped on the Rio Grande, as a precautionary measure, because of hostile attitude of both factions in Mexican territory.

Oct. 26.—Election took place, which Huerta declared null and void, announcing that he would remain in power until a new President should be elected.

Nov. 1.—Two U. S. battleships were sent to Mexico at the request of the French minister.

Nov. 1.—Two U. S. battleships were sent to Mexico at the request of the French minister.

Nov. 1.—Sixteen war vessels were stationed off the east cost of Mexico.

Dec. 10.—New Congress approved annulment of October elections, and set date of new election for July, 1914.

Ian. 10.—Villa defeated Federal troops at Olinaja.

Feb. 3.—President Wilson lifted embargo on shipment of arms and ammunition from United States into Mexico.

April 3.—Battle of Torreon, resulting in defeat of Federal forces, brings about the elevation of Villa as military leader of Constitutionalists.

CHRONOLOGY OF THE MEXICAN REVOLUTIONS (Continued)

1914

Nov. 17.—Because Villa would not concede Carranza's demand, all negotiations for a peaceful settlement declared off and Provisional President Gutierrez instructed Villa to renew hostilities against Carranza and open the way to Mexico City. In the meantime, Gutierrez remained at Aguascalientes.

Nov. 18.—Villa forces took Leon. Reported that Villa had arrested Christory and other wamphers of expective house.

Nov. 18.—Villa forces took Leon. Reported that Villa had arrested Gutierrez and other members of convention because of alleged plot to deliver convention into power of Carranza. Nov. 21.—Carranza and his officials left for Vera Cruz. Nov. 23.—American troops evacuated Vera Cruz. Nov. 24.—General Lucio Blanco, who had remained to guard the city against Zapata, departed with his forces. Zapata's troops took possession, and maintained order. Nov. 26.—Villa's men defeated near Tampico. Generals Villareal, Obregon and Hay in the field for Carranza. Nov. 27.—Carranza set up his government at Vera Cruz. Nov. 28.—Villa's army defeated at Guadalajara, his cavalry in Mexico City. Heavy losses of Maytorena forces at the border.

Nov. 30.—Conzales set up government in Mexico City.

Dec. 4.—Villa entered Mexico City with Zapata. Gutierrez put in office as provisional president, supported by Villa, Zapata and Angeles.

Dec. 6.—Carranza took over railroads, telegraph and telephone

Dec. 8.—Battle in streets of city between forces of Villa and

on the ships.

May 28.—President Wilson aroused by Carranza seizure of corn; sent word that food must be allowed to pass, or United States would act.

June 2.—President Wilson promised support of United States to worthy man who could rally the inhabitants in an effort to bring about peace. In case Mexicans falled to reach agreement, United States would decide means to save Maxico and serve the people.

June 17.—Admiral Howard ordered to land on the west coast unless uprisings cease.

June 30.—Disorder continued. Secretary Lansing invited representatives of six leading South and Central American countries to confer on Mexico, and plan a movement toward peace.

toward peace.

Aug. 5.—Argentina, Brazil, Chili, Bolivia, Uruguay and Guatemala invited by Secretary Lansing to solve Mexican

mala invited by Secretary Lansing to solve Mexican problem.

Aug. 10.—Villa made concession to United States in regard to northern part of Mexico.

Aug. 13.—Pan American Conference sent note to all Mexican leaders, offering to arrange for their meeting on neutral territory in Mexico to decide on a provisional president, and set up a government which United States could recognize. Replies requested in ten days.

Aug. 15.—Carranza protested to Argentina against that country's participation in Pan American Conference, called by Secretary Lansing, as a crime to Mexican people.

Aug. 31.—American ranchers killed General Orozco and four Mexican bandits.

Sept. 15-Carranza refused to join general conference with Pan

Mexican bandits.

Sept. 15—Carranza refused to join general conference with Pan American powers.

Oct. 19.—The Pan-American Conference, at its final meeting decided to recognize General Carranza as provisional President of Mexico. The conference was composed of representatives of the United States, Argentina, Brazil, Chili, Bolivia, Uruguay, and Guatemala.

Oct. 31.—Five thousand Carranza soldiers with mounts and artillery received permission to travel through American territory from Eagle Pass to Douglas, Arizona on representations that the Carranza forces at Agua Prieta, opposite Douglas, were threatened with siege by the insurgent army of Gen. Villa.

Nov. 2.—Villa defeated at the town of Agua Prieta by Carranza forces under Gen. Calles. American soldiers and others on American territory were wounded.

Nov. 16.—Cuba recognized Carranza.

Nov. 16.—Great Britain recognized Carranza.

Nov. 22.—Carranza forces captured Cananea and inflicted a loss of 2000 men on Villa at Hermosillo.

Nov. 24.—Following repeated Indian outrages in Mexico the American armored cruiser "San Diego" was ordered to the west coast of Mexico.

Nov. 25.—Spain recognized Carranza.

Dec. 17.—Henry Prather Fletcher was appointed American Ambassador to Mexico.

Dec. 3.—Battle in streets of city between forces of Villa and No. Zapata.

Dec. 13.—Carranza assumed all military, judicial and legislative powers.

Dec. 14.—Gutierrez promised to protect border towns.

Dec. 14.—Gutierrez prohibited summary punishment, and provided for trial by court-martial.

Jan. 16.—Gutierrez named for provisional president to serve until April, 1916.

Jan. 18.—Martial law established in Mexico City.

Jan. 18.—Martial law established in Mexico City.

Jan. 18.—Secretary Bryan warned Americans not to re-enter Mexico; said State Department had refused aid to those who were warned and would not leave.

Mar. 28.—Garza succeeded Gutierrez as provisional president. Apr. 1.—Secretary Bryan warned Americans not to re-enter Mar. 28.—Garza succeeded Gutierrez as provisional president. Apr. 1.—Secretary Lansing telegraphed a demand on Gen. Carranza for the immediate pusuit, capture and punishment of the bandits.

Jan. 19.—Carranza forces.

Jan. 19.—C. R. Watson and fitteen other Americans taken from train forty miles west of City of Chinauhuu by bands commanded by Gen. Lopez and Gen. Reyna, operating of Villa, active commanded by Gen. Lopez and Gen. Reyna, operating of Villa, active commanded by Gen. Lopez and Gen. Reyna, operating of Villa, active commanded by Gen. Lopez and Gen. Reyna, operating of Villa, active commanded by Gen. Lopez and Gen. Reyna, operating of Villa, active control of the Carranza force in territory announced to be in control of the Carranza force.

Jan. 19.—Secretary Lansing telegraphed a demand on Gen. 31.—Elisso Arredous, Ambassador designate of the defacts government of Mexico, assured Secretary Lansing telegraphed a demand on Gen. 31.—Elisso Arredous, American territories,
Mar. 15.—The punitive expedition reported to number about 6000, entered Mexico in two columns. Brig. Gen. John J. Pershing with about 4,000 men crossed the border south of Columbus, while Col. George A. Dodd, beading a smaller column crossed some distance west of Columbus, near Hachita

Hachita.

Mar. 21.—Gen. Funston, at Gen. Pershing's suggestion appealed to the War Department for more troops and the Fifth Cavalry was ordered to Mexico to protect the line of communications.

Mar. 24.—Two columns of Gen. Pershing's force reported 126 miles southeast of Casas Grandes.

Mar. 26.—Villa reported checked near Namiquipa by Mexican troops, but escaped. The bandit and his men headed into the Madera Valley, which runs south from the Namiquipa country. The American troops were over 200 miles below the border.

CHRONOLOGY OF THE MEXICAN REVOLUTIONS (Continued)

1916

Mar. 27.—Villa attacked the town of Guerrero, put to death 172 men in the garrison and held others prisoners intending to kill them. During the engagement Villa was shot through the leg but escaped.

Mar. 28.—Col. Dodd's column was shifted from the eastern slope of the Sierra Madre to the Pacific Slope and began to operate out of Madera as a base.

Mar. 28.—Urgency deficiency bill, appropriating \$8,611,502. for expenses in connection with the army's punitive expedition into Mexico and the recruiting of the additional 20,000 men to bring the regulars up to maximum strength, passed the House and Senate, and was sent to the White House for the President's signature.

Mar. 29.—Villa surprised near Guerrero by a flying detachment of American cavairy under Col. Dodd, was badly defeated, and seriously wounded. Villa's Chief Military Commander Eliseo Hernandez was Hilled. In a tenmile running fight Villa's troops were driven into the mountains where they separated into small bands.

Commander Elisco Hernandez was killed. In a tenmile running fight Villa's troops were driven into the mountains where they separated into small bands.

Mar. 30.—One of the smaller bands into which the Villa force scattered was struck by Col. Cano and their leader, Manuel Boco was killed.

April 12.—A band of 100 American troopers under Major Tompkins who entered Parral in alleged violations of "instructions" not to occupy towns, were attacked by a force of Carranza soldiers and obliged to withdraw. Forty Mexican soldiers were killed by the retreating Americans. The American casualties were two killed and six wounded. April 13.—The Carranza government requested the immediate withdrawal of the American punitive expedition from Mexico, giving these reasons: (1) The American expedition was sent against Villa without warrant, because there was no previous formal or definite understanding; (2) Because the expedition was not fulfilling its object and could not do so, as "the band headed by Villa has already been dispersed." (3) Because there were "sufficient Mexican troops to pursue Villa."

April 19.—Secretary of War Baker dispatched Major Gen. Hugh L. Scott, Chief of Staff, to the border as his personal representative to make complete report on the military problems confronting Gen. Funston.

April 24.—The Carranza Government accepted a proposal from the United States for a conference on the international border between Gen. Alvarado Obregon, Minister of War and Major Gen. Hugh L. Scott, to discuss the military aspects of the American punitive expedition into Mexico and the de facto Government's attitude toward the project for the capture of Villa.

April 29.—The first conference between the representatives of the United States and Mexico began at Juarez.

May 4.—The Eleventh Cavalry surprised and routed a large force of Villa bandits at Ojo-Azules. There were no American casualties but 42 Mexicans were killed and a number of fugitives rounded up.

May 5.—The Big Bend district in Brewster County, Texas, was raided b

follows:

First—General Scott was convinced that the Carranza de facto Governments understood that the purpose of the United States in sending troops into Mexico was not aggression or armed intervention

Second—General Obregon had agreed to send 10,000 picked troops into the Big Bend and Parral regions of Mexico to stamp out bandits.

Third—General Obregon had given orders to General Trevino to endeavor to head off the bandits who raided Glenn Springs and Boquillas.

Fourth-The United States troops were to remain in Mexico until the Carranza Government demonstrated that it had power to control the situation in Northern Mexico and where the United States Government had no troops.

Fifth—General Obregon also gave assurances that the Carranza forces would not move from Sonora through Pulpito Pass to operate in the rear of General Pershing's column and would not attack American troops.

Sixth—Every effort should be made by Carranzistas to free the Americans whom the Big Bend bandits kidnapped.

May 26.—Candelario Cervantes and Jose Bencomo, Villista Chiefs were shot and killed near Cruces by United States

May 31.—The Carranza de facto Government delivered to the United States Government a new and sharp note, bristling with what amounted to charges of bad faith against Presiwith what amounted to charges of bad faith against President Wilson and insisting upon the immediate withdrawal from Mexico of the American military forces or a frank declaration of the American Government in explanation of its purpose in retaining them there. The note did not fix any time limit within which the American forces should be withdrawn but asserted that should the American Government refuse to comply with these requirements the defacto government might conclude that the expedition was being maintained on Mexican soil for occult reasons and as a precautionary measure in anticipation of a clash with Mexico.

facto government might conclude that the expedition was being maintained on Mexican soil for occult ressons and as a precautionary measure in anticipation of a clash with Mexico.

June 1.—President Wilson let it be known that although he had no intention of keeping the troops across the border longer than necessary to enable the Carranza authorities to end the operations of bandits, the United States would not yield to the demand of Carranza.

June 9.—American consulate in Chihuahua was stoned.

June 10.—It was reported from San Antonio that a Mexican band had raided a Texas ranch and that Capt. Bell with one troop of the Fourteenth Cavalry had crossed the line in pursuit. On the same day Gen. Trevino, acting governor of Chihuahua, was represented as urging all Americans to leave, as he could not guarantee them protection against the rising resentment of the Mexicans.

June 11.—Secretary of War Baker ordered 1,500 additional regulars to go to San Antonio for border patrol service. This action was induced by a report from Gen. Funston telling of Mexicans firing on an American patrol near New Hatchet, N. M., and wounding Private Lee W. Saunders of the Twelfth Cavalry. Gen. Funston asked for more men to strengthen the border patrol so that reinforcements could be sent to Gen. Pershing if needed.

June 13.—Secretary Lansing sent a preliminary representation to Carranza calling his attention to the fact that a Mexican raider killed by American soldiers following a raid on Coleman's ranch near Laredo, Tex., was positively identified as Lieut.-Col. Villareal, an officer in Carranza's army.

June. 15.—Following conferences in Washington between Secretary Lansing and certain members of the Diplomatic Corps, it was reported that some of the other Powers had offered their friendly assistance in solving the Mexican problem without war. On the same day, according to despatches from Mexico city, Gen. Gavira was reported that one of the other Powers had offered their friendly assistance in solving the Mexican problem without

e 16.—Washington heard unofficially that Gen. Jacinto Trevino, acting under instructions from Gen. Carranza, had informed Gen. Pershing that any further movement to the east, south or west would be regarded as a hostile act and a signal for warfare. Following the entry into Mexico of American troops near Laredo, notices were posted in Juarez inviting all Mexican citizens to meet every day to receive military instruction. Gen. Pershing's reply to Gen. Trevino's threat was:

I have not received orders to remain stationary or to withdraw. If I see fit to send troops in pursuit of the ban-dits to the south, east or west, in keeping with the object of this espedition, I will do so.

CHRONOLOGY OF THE MEXICAN REVOLUTIONS (Continued)

Gen. Ricaut announced that the American soldiers in Mexico would be attacked unless a punitive expedition that chased marauders across the line on June 16 was with drawn at once. Gen. Parker's answer was to rush the Twenty-eighth Infantry and seven troops of the Third Cavalry below Matamoras.

June 18.—A detachment of bluejactes on motor launch from the U. S. gunboat "Asmaphis" sent to landing at Mazatlan was fired on by customs officials and others on shore. June 19.—President Wilson called out the militia of every State for border duty. On the same day the American punitive expedition that had crossed near Brownsville was withdrawn, after being fired upon, with the result that one Mexican was killed and three wounded. Gen. Obregon, Carranza's Minister of War, replied to President Wilson's summons to the militia by calling upon all Mexicans to be prepared to defend the country in case of a rupture of relations with the United States.

June 19.—Carranza, addressing a crowd in Mexico city, said

prepared to derend the country in case of a rupture of relations with the United States.

June 19.—Carranza, addressing a crowd in Mexico city, said conditions were not so serious and that the outcome depended upon the United States. He also instructed his leaders at the border not to permit the further passage of American forces Gen. Obregon, also speaking in Mexico city said: "The United States designs to crush us with brute force and defile our soil with the feet of the invader. Before this prospect we are determined to shed the last drop of our blood to avoid it."

June 20.—Secretary Lansing sent the long delayed note to Carranza. It summed up at great length Mexican outrages upon American life and property and warned Carranza that the United States would not recede from its determination to remove the border peril and that the execution of Carranza's threat to attack American troops if they did not retire "will lead to the gravest consequences."

June 22.—Troops C and K of the U. S. Tenth Cavalry commanded by Captains Boyd and Morey, while in pursuit of bandits at Carrizal, were fired upon by Carranza soldiers under command of General Gomez. Captain Boyd and twelve American soldiers were slain and eighteen were taken prisoners. Captain Morey though wounded escated. The Mexicans lost forty-two soldiers

teen were taken prisoners. Captain Morey though wounded, escaped. The Mexicans lost forty-two soldiers including General Gomez.

June 23 .- 500 U. S. Cavalry troopers sent to rescue Carrizal

squad.

If any attack is made on any part of my forces while performing such duties the entire military strength of the expedition will be used against the attacking force. Gen. Trevino, as commander in chief of the de facto troops in the north, will be held responsible for the Mexican forces within striking distance of American forces.

June 17.—While Secretary of War Baker was in conference with President Wilson word was received of serious fighting on the Mexican side of the border near Brownsville, Tex. Gen. Ricaut announced that the American soldiers in Mexican would be attacked unless a punitive expedition that

June 28.—Carranza freed 23 American troopers held prisoners, eighteen captured at Carrizal and five others picked up after the battle. He thus avoided immediate break with the United States.

July 5.—Carranza, in note United States, suggested that the United States and Mexico submit their differences to

arbitration or direct negotiation.

July 7.—Congress asked for special appropriation of \$1,643,500 to complete equipment of the National Guard and \$300,000 for getting Americans out of Mexico. Bandits defeated Carranza troops near Corralitos and crossed desert toward

July 12.—Note received in Washington proposing the appointment of three commissioners by each government, to settle

difficulties between the two countries.

July 28.—President Willson accepted the plan.

Aug. 3.—Luis Cabrera, Minister of Finance, Ignacio Bonillas,

Under Secretary of communications, and Auberto J. Pani,

President of the National Railways of Mexico, were selected as the Mexican commissioners.

Aug. 22.—President Wilson selected Franklin K. Lane, Secretary of the Interior, George Gray of Wilmington, Del., and Dr. John R. Mott of New York as American members of the commission.

Sept. 1.-Villa attacked Carranza leader in Santa Ysabel and

Sept. 1.—Yins attacked Carranza leader in Santa Ysabel and forced him to retire.

Sept. 2.—Hipolito Villa arrested at Fort Bliss, Texas.

Sept. 3.—First municipal elections were held in Mexico.

Sept. 6.—American and Mexican joint commission met at New

London.

Sept. 12.—President Wilson received commissioners on board the Mayfower.

Sept. 16.—Villa attacked Chihuahua City, but was driven off.

Sept. 26.—Villa bandits wiped out two Carranza garrisons.

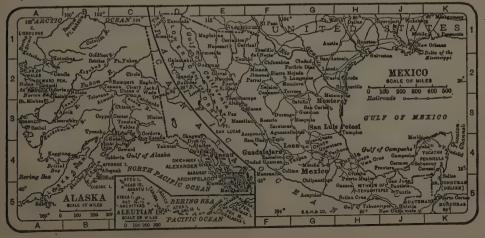
Sept. 30.—Carranza abolished Vice-Presidential post and re-

formed constitution.

Oct. 15.—10,000 Carranza troops reported to have joined Felix Diaz in a movement against Carranza.

Nov. 3.—Villa was reported to have captured Parral and Ynez Salazar.

Nov. 12.—Carranza threatened to recall Mexican commissioners unless the U. S. Army is withdrawn.



CHRONOLOGY OF THE GREAT WAR

RIRST YEAR

1914

une 28.—Archduke Francis Ferdinand assassinated.
uly 23.—Presentation of Austro-Hungarian note to Servia,
uly 28.—War declared on Servia by Austria-Hungary.
uly 30.—Partial mobilization of Russian Army. Belgrade July

bombarded by Austria-Hungary.

31.—General mobilization of Russian Army ordered.

State of war declared in Germany.

1.—War declared on Russia by Germany. Luxemburg invaded by Germany. French cabinet orders general

mobilization.

Aug. 2.—German troops enter France. German ultimatum to
Belgium demanding free passage for her troops. Russian

Belgium demanding free passage for her troops. Russian troops enter Germany.

Aug. 4.—Ultimatum sent by Great Britain to Germany demanding an assurance that the neutrality of Belgium shall be respected. Germans attack Liege. Mobilization of the British Army. Germany declared war on both Belgium and France. Great Britain declared war on Germany. Mobilization of Turkish Army. President Wilson issues proclamation of neutrality.

Aug. 5.—Lord Kitchener appointed British minister of War. German mine-layer Koenigen Lusies destroyed. First installment of British expeditionary force landed on French coast. President Wilson tenders his good offices to the warring nations.

coast. President Wilson tenders his good omces to the warring nations.

Aug. 6.—Austria-Hungary declared war on Russia.

Aug. 7.—Mobile Belgian military force withdrew from Liege, leaving forts occupied by their permanent garrisons.

Aug. 8.—French advance into Alsace, occupying Altkirch.

Aug. 8.—French advance into Alsace, occupying Altkirch. Italy reaffirms neutrality.
Aug. 9.—German warships Goeben and Breslau took refuge in the Bosphorus. French occupy Muelhausen.
Aug. 10.—France declares war on Austria-Hungary.
Aug. 12.—England declares war on Austria-Hungary.
Sale of German warships Goeben and Breslau to Turkey announced.
Aug. 14.—Mobilization of French Army completed and announced as being in touch with the Belgians. Allies protested to Turkey against purchasing and taking over the German warships Goeben and Bresslau.
Aug. 15.—Japanese issue ultimatum to Germany demanding evacuation of Kiauchau. Russia issues proclamation promising reconstitution and autonomy of the Kingdom of Poland.
Aug. 16.—Landing of British expeditionary force on coast of

Poland.

Aug. 16.—Landing of British expeditionary force on coast of France completed. Russian advance on Germany begun.

Aug. 17.—Belgian Government removed from Brussels to Antwerp. Beginning of a five days' battle in Lorraine, ending in repulse of French across frontier with heavy loss. Beginning of five days' battle between Servians and Austrians on the Jadar, ending in Austrian rout.

Aug. 20.—Brussels occupied by Germans. Belgian Army retreats to Antwerp. French reverses in Alsace.

Aug. 23.—Germans enter Namur and begin attack on Mons. Japan declares war on Germany, blockades and commences bombardment of Tsingtau. Germans destroy three of Namur forts.

Aug. 24.—Fall of Namur announced.

Aug. 24.—Fall of Namur announced.

Aug. 25.—Louvain destroyed by Germans. German Zeppelin drops bombs on Antwerp. Muchausen evacuated by

drops bombs on Antwerp. Muchausen evacuated by French.

Aug. 26.—Non-partisan French cabinet organized. Germans take Longwy.

Aug. 28.—British fleet sinks five German warships off Helgoland. Sept. 2.—Russiams defeat Austrians at Lemberg after seven days continuous fighting.

Sept. 3.—French Government removed from Paris to Bordeaux. Sept. 3.—Great Britain, France and Russia agree not to treat for peace separately. Rheims taken by Germans.

Sept. 7.—Germans reach extreme point of their advance in first invasion of France, and begin retreat.

Sept. 12.—German retreat halts on Aiane.

Sept. 14.—British auxiliary cruiser Cermania sinks German armed cruiser Cop Tralolgar off east coast of South America.

Sept. 16.—Russians retire from East Prussia.

Sept. 20.—Bombardment of Rheims Cathedral by Germans.

British cruiser Pegassa completely disabled while at anchoe in Zanzibar Harbor by German cruiser Koenigsberg.

1914
Sept. 22.—British cruisers Aboukir, Hogue and Cressy sunk by
German submarine in North Sea.
Sept. 28.—Germans bombard Antwerp's first line of defence.
Oct. 5.—Belgian Government removed from Antwerp to Ostend.
Oct. 17.—Japanese seize Caroline Islands.
Oct. 19.—Germans occupy Antwerp
Oct. 11.—German advance in Poland threatens Warsaw.
Oct. 12.—Martial law declared throughout Union of South
Africa on account of mutinies by Boer leaders.
Oct. 13.—Belgian Government removed from Ostend to Havre.
Oct. 15.—Ostend occupied by Germans.
Oct. 16.—British cruiser Hawke sunk by German submarine.
Oct. 17.—Japanese cruiser Takachiko sunk by torpedo in Kiauchau Bay.

chau Bay.

Oct. 18.—Belgian Army effects junction with allied left. Beginning of battle from Channel coast to Lisle.

Oct. 24.—Ten days battle before Warnaw ends in German de-

feat.

Oct. 27.—The "Audacious" one of the new British dreadnoughts, sunk by a mine off the Irish Coast.

Oct. 29.—Turkey begins war on Russia by naval attacks on
Black Sea ports.

defeated British squadron off

Black Sea ports.

Nov. 1.—German squadron defeated British squadron off
Coronel, Chile.

Nov. 5.—England and France declare war on Turkey. Dasdanelles forts bombarded.

Nov. 6.—Klauchau surrenders to Japanese.

Nov. 1.—Germans cross Yser Canal and capture Dixmude.
Nov. 11.—Germans cross Yser Canal and capture Dixmude.
Nov. 13.—Russians seize Tarnow, Kroano, and Jaslo.
Nov. 18.—Officially reported that a launch of U. S. S. Tennessee
was fired on in harbor of Smyrna, Turkey.
Nov. 21.—Russians capture Gumbinnen.
Nov. 22.—Turks gain victory over British near Port Said, east
of the Suez Canal.
Nov. 23.—Beginning of second Battle of Ypres in the Argonne.
Nov. 24.—Russian victory concludes ten-day battle in Poland.
Nov. 25.—British steamer Malachite sunk near Havre by German submarine. man submarine.

Nov. 26.—British predreadnought Bulwark blown up in the Thames.

Nov. 27.—French gain strongholds along line from the Channel to Muehlhausen. Bombardment of Rheims effected. Nov. 29.—Important positions captured by Allies near Ypres. Russians seize Czernowitz.

Russians seize Czernowitz.

Nov. 30.—Capture of Belgrade by Austrians ends 126-day siege.
Dec. 3.—Germans take offensive position between Ypres and

Dizmude.

Dirmude.

Dec. 5.—Allies successfully resist the German attack at Ypres.
Dec. 6.—Germans capture Lodz and threaten Warsaw.
Dec. 8.—British battleship squadron meets and destroys four German cruisers off Falkland Islands. Only one German cruiser escapes and this is pursued by the British fleet.
British force captures Kurna in Turkey.
Dec. 10.—Von Moltke is succeeded by von Falkenbayn as head of the German General Staff.
Dec. 12.—Austrians repulsed by Servians at Kosmai.

Dec. 13.—British submarine sinks Turkish battleship Masudiek in the Dardanelles.

Dec. 14.—Servians recapture Belgrade. Austrians capture 9,000 Russians at Dukla in the Carpathians.

Dec. 16.—The English coast towns Scarborough, Hartlepool, and Whitby are bombarded by a German squadron.

Dec. 17.—England declares protectorate over Egypt; end of Turkish suzerainty.

Dec. 18.—Germans seize Lowicz.

Dec. 19.—Battle on the Bzura halts Germans thirty miles from Warsaw. Dec. 20.—Interior forts of the Dardanelles are bombarded by

Dec. 20.—Interior forts of the Dardanettes are bombarded by allied fleets. Germans advance farther toward Warsaw.

Dec. 21.—Russians win in Armenia.

Dec. 22.—German strongholds along Belgian coast shelled by allied fleets.

Dec. 23.—Austrians defeated in Carpathians.

Dec. 25.—British cruisers, accompanied by hydroaeroplanes, attack German naval base at Cuxhaven.

Dec. 30.—Germans withdraw over the Bzura.

FIRST YEAR (Con'l.)

1915

Jan. 1.—British battleship *Pormidable* is torpedeed and sunk in the English Channel with severe loss.

Jan. 4.—French troops capture Steinbach in Alsace. Russians are victorious at Ardahan and Sarikamysh.

Jan. 7.—President of France issues decree prohibiting the sale

and transportation of intoxicating liquors.

Jan. 9.—Germans recapture Steinbach and Burnhaupt.

Jan. 10.—Thirty bombs thrown by German aeroplanes on Dunkirk.

Jan. 13.—Baron Burian, a Hungarian, succeeds Count Berchtold as Premier of Austria-Hungary

Jan. 14.—Germans win victory north of Soissons, forcing the French retreat across the Aisne. Jan. 15.—Kirlibaba Pass taken by the Russians.

Jan. 16.—Turkish mine sinks French submarine Sophie in the Dardanelles.

18.—La Bassee, centre of fierce fighting, victories alternating. The French advance within ten miles of Metz.

Jan. 19.—German airships raid English towns on Norfolk coast.

Jan. 24.—German squadron is defeated by British coast patrol in second attempt to raid the English coast. German cruiser Bluecher sunk.

Jan. 27.—Austrians recapture Uzsok Pass.

Jan. 28.—French defeated at Craonne.

Jan. 30 .- Russians win Tabriz in victory over Turks.

Feb. 1.—Germans recapture Borjimow, driving the Russians back upon Warsaw. Feb. 2.—The four outer forts of the Dardanelles are shelled by

British and French fleets.

Feb. 4.—Germany declares waters surrounding the British Isles, except a passage north of Scotland, to be a war zone after Feb. 18.

Feb. 6.—The Lusitania flies American flag in the "danger zone" under British protection.

Feb. 9.—Russians repel heavy attack of the Germans in the

Carpathians. Feb. 10.—U. S. Government protests against Germany's "war

Feb. 12.—Belgian coast seaports raided by thirty-four British

aircraft.

Feb. 14.—German troops occupy Plock.
Feb. 16.—Forty British aviators again attack Belgium. Italy and Holland protest against "war zone" decree.
Feb. 18.—Germany declares "war zone" decree to be in effect.
Feb. 19.—Great Britain suspends passenger travel between England and the Continent.

Feb. 20.—American cotton-ship Evelys is sunk by mine off coast of Holland.

Feb. 23.—American steamer Carib is sunk off the German coast. Feb. 24.—Germans capture Przasnyaz north by west of Warsaw. Feb. 25.—Allied fleet silences all forts at entrance to the Dardan-Feb. 27.-Russians recapture Przasnysz.

Mar. 2.—Russians occupy Dukla Pass.

Mar. 5.—Continued bombardment of the Dardanelles silences three more forts on the Asiatic side. Mar. 9.—Three British merchantmen sunk by German sub-

marines.

Mar. 11.—British take Neuve Chapelle and advance toward

Mar. 14.—Three British warships aink the German cruiser

Dresden near Juan Fernandez Island.

Mar. 15.—French capture trenches in vicinity of Arras.

Mar. 18.—British battleships Irresistible and Ocean and the French battleship Bouvet are sunk in the Dardanelles. The British Inflexible and French Goulois are damaged.

Mar. 22.-Przemysl is surrendered to the Russians.

Mar. 23.-Lupkow Pass is won by the Russians.

Mar. 28.—British-African passenger-ship Falaba is sunk by a German submarine in St. George's Channel.

Apr. 1.—Germans begin attacks on English fishing fleets.

Apr. 2.—British battleship Lord Nelson is destroyed in the Dardanelles.

Apr. 3.-Allied fleet withdraws from the Dardanelles.

Apr. 4.—Russian army wins Smolnik near Lupkow Pass.
Apr. 5.—Russians capture Varecze Pass in the Carpathians.
Apr. 7.—Germans surrender Les Eparges to the French.
Apr. 11.—Russian army encamps within eighteen miles of the Hungarian border

Hungarian border.

Apr. 14.—Fierce fighting rages at "Hill 60" in the vicinity of Ypres.

Apr. 17.—Russians withdraw from Tarnow in Galicia.

Apr. 19.—Germans gain in the struggle near Ypres.

Apr. 20.—British defeat the Turks in Mesopotamia. Relations between Austria and Italy become strained. Germans begin to evacuate Italy.

Apr. 23.—Attack by the Allies is resumed in the Dardanelles.

Apr. 26.—Russians suffer losses at Uzsok Pass.

Apr. 26.—Germans, reinforced, repulse French north of Ypres offsetting loss at Neuve Chapelle.

Apr. 28.—English and French ships suffer severe loss in the Dardanelles. The Allies establish armies on the peninsula of Gallipoli.

of Gallipoli.

Apr. 29 —Germans cut the Libau-Kovno railroad in Russia.

Apr. 30.—Germans shell Dunkirk from distance of 20 miles.

May 1.—American oil-steamer Cushing wrecked by German aeroplane in the North Sea. American steamer Guiflight sunk by German submarine.

May 2.—Austrians gain heavy victory over the Russians in Tarnow.

May 5.—British lose "Hill 60" near Ypres.

May 7.—The Lusitonia is sunk by German submarine off Kinsale, Ireland, with a loss of 1198 lives of which 120 were Americans.

May 13.—President Wilson sends Lusitania protest to Germany. May 16.—British battleship Goliath sunk in the Dardanelles

May 18.—German trenches captured south of Richebourg.

May 19.—Reorganization of English cabinet.

May 22.-Italy declares a 'State of War.' Troops clash on the frontier.

May 23.—French gain north of Arras.
May 24.—Italy declares war on Austria.
May 26.—Ex-Premier Balfour succeeds Winston Churchill as
First Lord of the Admiralty.
May 27.—British battleship Triumpk is torpedoed in the Dar-

May 28.—British auxiliary vessel Princess Irene is blown up at

the mouth of the Thames, loss of 424 lives.

May 29.—Germany's reply to U. S. note suggests arbitration.

British shells sink Zeppelin in North Sea.

May 30.—Italians force way to Trieste, and capture town of Ala. June 1.—Zeppelin airships drop ninety bombs at the mouth of the Thames.

June 3.—Italians reduce fort near Trent. San Marino Republic (smallest independent government in the world) declares war. Przemysł retaken by Austro-German troops.

June 7.—Secretary of State Bryan resigns.

June 8.—Italians occupy Monfalcone.

June 11.—President Wilson's second Lusilania note to Ger-

many made public.

June 13.—Gen. Mackensen breaks Russian line east of Przemysl. Venizelos wins in Greek elections.

June 22.—Austro-Germans recapture Lemberg.

July 7.—Italian armored cruiser Amalfi sunk by Austrian submarines.

July 8.—Germany's reply to second United States note regard-ing Lusitania handed to American Ambassador at Ber-lin. Last German forces in South Africa surrender to Gen. Botha. Russians surprise Austrians under Archduke Joseph Ferdinand and capture 15,000.

July 22.—President Wilson sends third Lusitania note to Germany.

Tuly 31.—Austrians occupy Lublin.

Aug. 4.—British notes on blockade made public.

Aug. 5.—Germans occupy Warsaw and Ivangorod.

CHRONOLOGY-SECOND YEAR OF GREAT WAR

Aug. 1 .- Teutonic forces advancing steadily on Warsaw.

Aug. 1.—Teutonic forces advancing steadily on Warsaw.
Aug. 5.—Teutons occupy Warsaw and Ivangorod.
Aug. 7.—The Allies land a new army on Gallipoli peninsula.
Aug. 9.—British forces gain slight success in vicinity of Ypres.
Aug. 12.—The Germans take Siedlee, east of Warsaw.
Aug. 14.—The British transport Royal Edward is sunk by a
submarine in the Ægean Sea with a loss of over a thousand

Aug. 17.—The Germans occupy the city of Kovno. Zeppelins again raid the suburbs of London.

Aug. 19.—The trans-atlantic liner Arabic is torpedoed and sunk off Fastnet; several American lives lost. The Germans occupy Novo Georgievsk.

Aug. 21.—German naval forces suffer defeat by Russian ships

in an attack on Gulf of Riga.

Aug. 26.—German offensive movement continues successful

with the occupation of Brest-Litovsk.

28.—The German ambassador to the United States, Count Von Bernstorff, requests delay of action on part of this government in the Arabic case and promises full satisfaction.

Sept. 1.—Germany gives virtual acceptance of the American contentions on submarine warfare.

Sept. 2.—German forces take Grodno.
Sept. 4.—Allan liner Hesperian sunk off Fastnet.
Sept. 7.—Grand Duke Nicholas is relieved of supreme conmand of Russian forces, the Czar assuming direct com-mand in his stead.

Sept. 8.—The Russians assume the offensive in Galicia and score slight success. The Germans in a new offensive in the Argonne district of France, gain over a mile of French trenches.

Sept. 9.—The recall of the Austrian Ambassador, Dr. Constantin Dumba, is demanded by President Wilson. Germany delivers note to United States justifying the sinking of the Arabic.

Ing of the Arabic.
Sept. 10.—A financial commission, sent to the United States by England and France, lands in New York.
Sept. 15.—The Teutonic forces occupy Pinsk.
Sept. 18.—The German advance in Russia continues and city of Vilna is taken.

Sept. 19.—Austro-German forces begin a bombardment of the Serbian frontier, preparatory to their announced intention of invading Serbia and opening a road to Turkey.

Sept. 24.—Greece orders the mobilization of all forces.
Sept. 25.—The long-heralded Anglo-French drive commences in the Champagne district and in vicinity of Lens. The first few days of offensive movement nets about 50 square miles of territory, many prisoners and considerable war

Sept. 27.-Kut-el-Amara, Turkey in Asia cature by British under General Townshend.

Sept. 28.—England pledges armed support to all Balkan countries who will join the Allies.

Sept. 30.—The French make additional gains in the Champagne

Sept. 30.—The French make additional gains in the Champagne district.

Oct. 3.—The Allies land troops at Saloniki, Greece, with the view of aiding Serbian resistance against the Teutons.

Oct. 4.—Russia sends ultimatum to Bulgaria, demanding an-

swer in 24 hours. 5.—Ambassador Von Bernstorff delivers note to United

States, disavowing the sinking of the Arabic and agreeing

States, disavoving the sinsing of the arrow and activated to give reparation.

Oct. 6.—The Greek Premier Venizelos resigns from the Cabinet. Austro-German forces invade Serbia, while Bulgaria formally rejects the ultimatum of Russia. Allied forces commence advance into Serbia. French gain slight successions of the Capital Research of the Capital Research of the Capital Research of Capital Research of the Capita

commence advance into Serbia. French gain slight success in Champagne. King Constantine of Greece appoints Zaimis as Premier to succeed Venizelos.

Oct. 7.—The Bulgarian port of Varna, on the Black Sea, is bombarded by Russian cruisers.

Oct. 9.—The Austro-German forces capture Belgrade after a severe bombardment of several days. Bulgaria protests to Greece against landing of Allied troops at Saloniki.

Oct. 10.—German attacks in vicinity of Loos repulsed with heavy losses. Russians driven back in Galicia.

Oct. 11.—The Teutonic invasion of Serbia progresses and town of Smedereva is taken. Russian forces gain success over Austrians on Stripa River. Germans capture five miles of trenches from Russians west of Dvinsk. French gain ground in Champagne.

12.—Austro-Germans advance south of Belgrade on line of Orient railway. Edith Cavel, English nurse is executed by Germans on charge of aiding British and Belgians to

by Germans on charge of adding Stream and escape from Belgium.

13.—Bulgarian army invades Serbia at three points.
Greece announces position for present to be one of armed neutrality.

neutrality.

Oct. 14.—French Foreign Minister Delcassé resigns from Cabinet. Austro-Germans advance to Posarevatz, Serbia. Greece renounces treaty with Serbia. Zeppelin raid over London results in deaths of 55 persons. British submarines in Baltic Sea sink six German merchant ships.

Oct. 16.—Great Britain declares war on Bulgaria. Serbia declares war on Bulgaria. Russians continue offensive at Dvinsk.

18.—Allies land troops at Enos, in Turkish territory. Allies take Strumitza, Bulgaria. Bulgars and Teutons

Aules take Strumitza, Bulgaria. Bulgars and Teutons making important advances in Serbia.

Oct. 19.—Italy declares war on Bulgaria. Bulgarians take Vrania. Allies repulse several German attacks in France. Germans take Duona. General Sir lan Hamilton is recalled from the Dardanelles. Sir Edward Carson resigns from the British cabinet.

Oct. 20.—Serbian capital transferred from Nish to Prisrend. Bulgarians and Teutons make further gains in Serbia.

Italy resumes strong offensive against Austria.

Oct. 22.—Serbians reported in serious plight. Bulgars take
Komanova. French defeat attacks on west front. Teutons Komanova. French deteat attacks on west front. Teutons nearing Riga.
Oct. 23.—Italian squadron helps Allies bombard Bulgarian port of Dedeagatch on Aegean Sea. Italian land forces resume strong offensive against Austro-Hungarian lines.
Oct. 24.—Italians gain on entire front. Russian naval forces bombard Courland coast.

bombard Courland coast.

Oct. 25.—Germans lose stronghold of "La Courtine" in Champagne. Germans advance in Serbia. Allied forces meet Bulgars in southern Serbia. German cruiser Prons Adolbert sunk by British submarine. Austrian air men raid Venice.

Oct. 26.—Teutonic forces seize Valjevo and Petrovac: Bulgars

are defeated by Allied forces near Strumitza.

Oct. 27.—Teuton forces join Bulgars on Danube, open way to
Turkey. French gain in Arras. Germans pierce Russian
line at Dvinsk.

Oct. 28.—French cabinet. headed by Viviani, resigns in body.
Briand appointed Premier by President Poincare.
Oct. 29.—Briand names new cabinet.
Nov. 1.—Germans take Kraguyevatz, and capture Serbia's

largest arsenal.

Nov. 3.—Bulgars and Germans gain in Serbia. Uzice captured by Germans.

7.4.—Greek cabinet resigns after Premier Zaimis loses in Parliament. Bulgars within six miles of Nish. Germans

win back Dvinsk position.

Nov. 5.—Greek King ignores war party. Teutons drive Serbs back in north and Bulgars beat French forces in south. Nov. 6.—Nish, the former capital of Serbia, captured by the Bulgarians.

Nov. 7.—Teutons drive Russians back across Stripa River.
Teutons retake trenches on western front.
Nov. 8.—M. Skouloudis, appointed Greek premier. Germans and Bulgars close in on Serbia.
Nov. 9.—Serious revolts reported in India. Lord Kitchener said to have been sent to quell rebels. French gain on west front after severe attacks. Italy to send troops to Serbia through Albania.

Nov. 10.—Italian liner Ancono sunk by Austrian submarine.

Over 200 persons missing. British renew attacks near Loos. Russians lose near Riga.

Nov. 12.—Greek Chamber dissolved.

Nov. 14.—Russians driven back across the Styr after prolonged feeting.

fighting.

CHRONOLOGY-SECOND YEAR OF GREAT WAR-Con'd

Nov. 14.—Russians driven across the Styr

Nov. 14.—Russians driven across the Styr.

Nov. 17.—Serbians forced to retire from Prilep.

Nov. 22.—Anglo-Indian troops rout Turks at Ctesiphon,
near Bagdad, but are obliged to retreat.

Nov. 23.—Bulgarians capture Mitrovitsa and Pristina.

Nov. 28.—British aeroplane destroys German submarine off Middlekirke.

Middlekirke.

Nov. 30.—Prisrend taken, opening up railway between Constantinople and Berlin via Vienna, Belgrade and Sofia.

Dec. 2.—British withdraw 70,000 troops from Gallipoli. Russians advance on Teheran, Persia. General Joffre made supreme commander of French armies.

Dec. 6.—U. S. sends note to Austria-Hungary demanding disavowal for sinking the Ancons.

Dec. 8.—Austrians force Serbian army in north through Montengro. British army under General Townshend retreats to Kuttel-Amara.

Dec. 15.—General Sir Douglas Haig succeeds Sir John French as commander in chief of British forces in France and Belgium.

Dec. 21.—Reichstag votes German war credit of \$2,500,000,000.

Dec. 28.—Germans lose line of trenches to French in Alsace.

Dec. 30.—Italian fleet defeats Austrian squadron off Durazzo

and sinks two ships. Austria-Hungary disavows sinking of Ancona.

Jan. 4.—U. S. protests British interference with mails, Jan. 9.—Remainder of British force leaves Gallipoli. Jan. 10.—Herbert Samuel, British Postmaster-General, suc-ceeds Sir John Simon as Home Secretary. Jan. 11.—Austro-Germans capture Mont Lovtchen, Monte-

Jan. 11.—Austro-Germans capture Mont Lovtchen, Monte-negrin stronghold.

Jan. 12.—Austrians occupy Cetinje, capital of Montenegro.

Jan. 16.—Russian army advances in Armenia.

Jan. 28.—Germans take line of trenches from French, south

of Somme River.

Jan. 29.—Zeppelins raid Paris and kill twenty-three noncombatants.

compatants.

Jan. 31.—Zeppelins raid English towns and kill fifty-nine.

Feb. 1.—German prize crew bring to Hampton Roads British steamer Appam, captured by Cruiser Möwe.

Feb. 16.—Russians capture Erzerum, a Turkish fortress.

Feb. 17.—Franco-British forces complete conquest of Kamerun, a German province in Africa.

Feb. 20.-Zeppelin is brought down by French near Revigny,

France.

Feb. 21.—House of Commons vote war credit of \$2,100,000,000.

bringing total to \$10,410,000,000. Crown Prince, with army of 300,000, attack French trenches west of the Meuse.

Feb. 23.—Lord Robert Cecil appointed War Trade Minister.

Portugal seizes thirty-six German and Austrian interned

merchantmen.

Feb. 26.—Austrians occupy Durazzo, Albania evacuated by

Feb. 27.—Submarine sinks French transport in Mediterranean with loss of 3,100.

Mar. 2.—Russians take Bitlis, fortified city 110 miles south of Erzerum.

Mar. 5.—Auxiliary cruiser Möwe returns to Germany after capturing or destroying fifteen allied vessels.
 Mar. 6.—Germans capture Forges near Verdun. British relief force reaches Essinn, seven miles from Kut-el-Amara.

Mar. 8.—Germany declares war on Portugal for seizing in-

terned ships.

Mar. 14.—Grand Admiral von Tirpitz resigns and is succeeded by Admiral von Capelle.

Mar. 16.—General Gallieni is succeeded by General Roques

as French Minister of War.

Mar. 18.—Submarine sinks French destroyer Renaudin in

Mar. 24.—British Channel steamer Sussex torpedoed by German submarine.

Mar. 27.—British gain at St. Eloi, Belgium.

Mar. 28.—Allies hold war conference in Paris for future conduct

Apr. 22.—Sir Roger Casement is arrested while attempting to land with German arms in Ireland.

Apr. 24.—Revolt breaks out in Ireland.

Apr. 24.—Revoit preaks out in Ireland.
Apr. 25.—German battle cruisers with submarines and Zeppelins attack English towns northeast of London.
Apr. 28.—10,000 British troops besieged for 143 days at Kutcl-Apr. 30.—Germans make fierce but unsuccessful attacks against

Dead Man's Hill, west of the Meuse. May 1.—Irish rebellion ends.

May 1.—Irish rebellion ends.

May 4.—Germany, under pressure from the U. S., promises to observe international law in regard to submarine warfare.

May 17.—Austrians in Lake Garda regions cross Italian frontier.

May 20.—British army on Tigris is joined by Russian Cossacks from Persian frontier.

May 22.—French recapture part of Fort Douaumont.
May 23.—French recapture part of Fort Douaumont.
May 23.—House of Commons vote a \$1,500,000,000 war credit,
bringing total up to \$11,910,000,000.
May 25.—Military Compulsion Bill becomes a law in England,
affecting men between eighteen and forty-one.

May 26.—Bulgarian troops enter Greece and take possession

May 26.—Bulgarian troops enter Greece and take possession of several forts.
May 29.—Officials announce in London that forty-four air attacks have been made on England since war began, resulting in 409 dead and 1,005 injured, also, in three attacks by German warships, 141 were killed and 611 injured.
May 31.—British and German fleets meet in battle off Jutland, Denmark. British lose fourteen war vessels and Germans eleven. 9,500 lives lost.

June 4.—Russians under Brussiloff begin new offensive, capture

13,000 Austrians along 332 mile front.

June 5.—British cruiser Hampshire sunk by mine off Orkney
Islands on way to Russia. Lord Kitchener, Secretary of
War, and entire staff lost. Russians take Lutsk and 15,000 Austrians.

June ?.—Germans occupy Fort Vaux, five miles southeast of Verdun.

June 9.—Italian transport *Principe Umberto* sunk by submarine

in Adriatic.

June 10.—Salandra Government resigns in Italy. Dubno,
with 35,000 Austrians captured by Russians.

June 12.—Germans penetrate advance positions, four miles from Verdun.

June 14.—Encounter between Russian and German battle-

ships in Baltic.

June 15.—French win back Le Mort Homme and Cailette
Wood. Boselli, new Italian Premier, forms cabinet.
June 17.—Russians under General Lechitsky capture Czer-

nowitz.

June 18.—Radziviloff, twelve miles northeast of Brody, taken

by Russians.
June 21.—Russians occupy Radautz.
June 24.—Victor Chapman, American aviator in France, killed

June 24.—Victor Chapman, American aviator in France, killed while flying over German lines.
June 28.—Germans remove 300,000 men from Verdun front for service on the Somme.
June 29.—Sir Roger Casement is found guilty of high treason, and sentenced to die on August 3.
July 1.—Italians regain one-third of territory lost since May 13.
Franco-British offensive begins north and south of the Somme River and French advance.
July 3.—Russian left wing advances to within twenty miles of Lemberg.
July 7.—Russians begin offensive on Riga front.

July 7.—Russians begin offensive on Riga front.
July 8.—Allies abandon Declaration of London and revert to
blockade principles as provided by international law.
July 9.—German merchant submarine Deutschland arrives at

Baltimore from Germany.

July 10.—French aeroplanes from Saloniki raid Sofia and Monastir. English capture three towns and 6,000 prisoners

on the Somme.

July 15.—Cossacks cross Carpathians and raid Hungary.

July 18.—England publishes names of eighty-two firms as

blacklist.

Mar. 27.—British gain at St. Eloi, Belgium.
Mar. 28.—Allies hold war conference in Paris for future conduct of war.
Mar. 30.—Germans capture Malancourt by gigantic infantry assaults.
Mar. 31.—Germans take Vaux.
Apr. 5.—Germans seize Haucourt, west of the Meuse.
Apr. 8.—French withdraw from Bethincourt.
Apr. 18.—Russian troops supported by Black Sea fleet take
Trebizond.

Black list.
July 21.—British take two more towns on the Somme.
July 27.—Crisis in British Cabinet over provisional scheme for Home Rule in Ireland.
July 27.—U. S. protests against British blacklist as illegal.
July 28.—Charles Fryatt, British sea captain, executed by Germans for trying to ram a submarine in March, 1915.
Russians capture Brody.
July 29.—French establish new line south of Somme and bombard Peronne. German airships raid east coast of England.

BRIEF HISTORY OF THE GREAT WAR

FIRST YEAR OF THE WAR

THE DECLARATIONS OF WAR.

Austria declared war on Servia July 28, 1914, lighting the fuse that exploded the European powder magazine. Four days later, on August 1, Germany was at war with Russia, and the next day, without formal declaration, with France, Russia's ally. On August 5, the ninth day, Great Britain became a participant in the struggle, because of the violation of Belgium's neutrality, which had brought that country, also without formal declaration, into the field. On the same day Montenegro, the smallest of kingdoms, cast her lot with the Entente Allies. On August 23, Japan declared war on Germany in consequence of Germany's refusal to give up her Chinese possession of Kiau Chau, and three days later, August 26, Austria formally declared war against Japan. On October 29, Turkish warships bombarded several Russian ports on the Black Sea; Russia naturally accepted this as a declaration of war and the follow-ing day declared a state of hostilities to exist between herself and Turkey; on November 5, England and France were formally arrayed against the same power. On May 22, 1915, Italy declared war on Austria.

THE FIGHTING BEGINS.

On July 30, the world was shocked to read of the bombardment of Belgrade, the Servian capital on the Danube, by Austrian river monitors. On August 2, German troops seized the narrow territory of the independent Grand Duchy of Luxemburg. France was already moving her field army toward the frontier, and Britain was straining every nerve to take her part. Such British troops as were available were mobilized as an expeditionary force.

THE FIRST FIGHTING IN THE WEST.

It was an essential part of the German plan of campaign to secure at the earliest possible moment an open way for an advance through Belgium into Northern France. To have delayed the first movements until the mobilization was complete would have risked the success of the operations, for the French would then be ready to come at once to the help of the Belgians.

THE BELGIUM PHASE.

The invasion of Belgium was begun on August 4, when a German column seized the crossing of the Meuse at Visé, where the first fighting on this frontier took place. A Belgian detachment defended the river crossing but was driven across the Meuse and during the fighting the town was set on fire. The main German advance was through Verviers towards the southern front of Liège. The German artillery opened fire on the outer forts of Liège after dark

in the evening, and during the night made repeated attacks on the Belgian trenches between the forts. These attacks were repelled and for a week the Belgians held one or two of the forts west of the Meuse but these were destroyed (August 13-15) by the first shots of the giant

Krupp howitzers. While the reduction of the Liège defences was being completed the German mobilization and concentration was taking place and, on August 15, the German forces were setting out on their dash to Paris. Masses of cavalry supported by infantry detachments conveyed on motor cars moved forward on a broad front, driving in the advanced Belgian troops. Here and there skirmishes took place, some of which were at the time exaggerated in the newspaper reports into serious engagements. Local Belgian successes against isolated detachments were represented as great victories. The only serious fight in those early days was the action at the village of Haelen, at the crossing of the river Gethe to the east of Louvain. On August 12, a Belgian division, about 10,000 strong, held the bridges over the little river, and was somewhat rashly attacked by a German cavalry force supported by an infantry brigade and some machine guns. The Germans tried to rush the bridges, but were beaten off with heavy loss.

Despite minor successes, it was, however, impossible for the Belgians to hold back the advancing tide of invasion, which swept irresistibly on. One force under von Kluck moved straight on Brussels; a second, under von Buelow, crossed the Meuse at Huy and advanced upon Namur, and a third came through the Ardennes and struck at the line of the Meuse above Namur. Brussels fell on August 20, the Belgian army fled to Antwerp and the German army, having passed the capital, started south for Paris. The Belgian phase ended on August 22, with the abrupt fall of Namur and the opening battles between the German armies and the Anglo-French forces of the north.

FRENCH DISASTERS.

The mobilization of the French army was begun on July 31, when the news of the German mobilization reached Paris. On Friday August 7, a French column from Belfort marched across the border, drove a German detachment out of Altkirch, and next day pushed on to and occupied Mülhausen, an important railway junction and a great industrial center. But the whole movement was premature, and the success was short-lived. Strong German forces were concentrated near Mülhausen, and on the 10th the French were forced to retire across the frontier.

After this check nothing serious was attempted until the mobilization had made further progress. By the end of the second week of August five

French armies had been formed, and were massing on a long line extending from the Swiss frontier on the right to that of Belgium on the left.

Meantime the British troops had arrived on the extreme left, and were concentrated in the vicinity of Cambrai. When the general advance of the French left began the British moved forward to a position inside the Belgian border.

with its center at Mons.

This forward movement was part of a general advance of all the French armies. On August 15, a French column had pushed forward into the Ardennes and driven a German detachment out of Dinant on the Meuse, a few miles south of Namur. In the second week of August a general advance of the French center and left was ordered and Lorraine was invaded. But the Germans were everywhere advancing. A series of great battles took place on a front of about two hundred miles and, on August 24, the French armies from Switzerland to the Belgian frontier were retiring.

After the fall of Namur the British about Mons were struck in front and flank by overwhelming forces and retreated southward protecting the left of the broken French line.

On August 26 the Germans were in full pursuit of the Allies. All along the line west of Verdun the Allies were retreating and the Germans were scoring a series of successes. Still further to the west large masses of German cavalry, supported by infantry detachments conveyed on motor-cars, were moving into the north of France between the British left and the Channel forts. The Germans occupied Lille and Amiens, cutting the railway to Calais and Boulogne.

An important step was taken on September 5, when Great Britain, France, and Russia signed a treaty which pledged the three governments "not to conclude peace separately during the present war," and "when the terms of peace come to be discussed no one of the allies will demand conditions of peace without the previous

agreement of each of the other allies."

A number of important political moves were made by the French about this time. On August 26, the French government, principally Socialist, which had wavered in the crisis and had even discussed giving up Paris without a struggle, was reorganized and the strongest men of France were included in the cabinet, ex-Premier Millerand being made minister of war.

Somewhat later, Gen. Joffre, the French Commander in Chief, dismissed scores of general officers from commands in which they had failed

to distinguish themselves.

On September 3, the French government decided to remove from Paris to Bordeaux and

the German advance guards reached a point fifteen miles from the outskirts of Paris; but when General von Kluck, commanding the German right wing, attempted to change his course and march his columns across the front held by the British army, so as to strike between the British army and the French army next in line, he was attacked in flank by a new French army, specially formed for this purpose. while, at the same time, the British moved against his front and a second French army sought to separate his own left wing from connection with the German army next in line to the northeast. With great skill General von Kluck succeeded in extricating himself from this dangerous position, and fell back behind the Aisne.

BATTLE OF THE MARNE.

When the Germans halted their retreat on the lines of the Aisne, the French held a line from Paris to Verdun, cut deeply to the south. On this line General Joffre had been concentrating his forces since the opening defeats. Now the Germans were in turn threatened with

envelopment.

The decisive point in the Battle of the Marne was about La Fère Champenoise, and the first heavy blow was struck here by General Foch. On September 9 the French defeated the Germans in a number of terrific engagements and drove all the German armies from Lorraine to Lagny back in a complete defeat which amounted to a rout at certain points. In this battle more than 3,000,000 were engaged, the losses were not less than 500,000 and the battle front was nearly two hundred miles long.

ON THE AISNE.

Between the Marne and the Aisne the Germans rallied and the position behind that river where they made their stand was admirably chosen. The fall of Maubeuge freed a German army which came south and reinforced von Kluck. In the next few days the Germans established a line from the Oise at Noyon to the Argonne. Every effort of the allies to drive them failed.

The French made a desperate effort to turn the Germans out by attacking their right flank and turning it, coming in about St. Quentin. But this failed, and in a few more days the line had begun to mount toward Belgium, each side meeting the other's efforts with new battalions. Meantime the Germans directed their attention toward making their position in Belgium secure by besieging Antwerp, which fell after a ten days' siege on October ninth.

Just before this surrender the British had been taken out of their trenches along the Aisne and sent north to fill the gap between the French battle line and the sea. Their objective was Antwerp, but the fall of this town ruined their plans and they were again left to face an overwhelming attack by new German armies.

BATTLES OF FLANDERS.

Following the final "consolidation" of the allied line came a series of desperate battles in an attempt of the Germans to reach the ports of Calais and Boulogne, from which they could hope to control the English channel. Dixmude was taken and Dunkirk almost fell, the British were driven almost to Ypres, and the French were forced back near Arras; but the attacks ended November 15 when, under the eyes of the kaiser, the famous Prussian guard tried to take Ypres and failed with huge losses. The British held Ypres despite a 50 per cent loss and against very superior forces, by some estimated at three or four times their number.

At the end of this period the Germans were in possession of a large part of Belgium and had won a few thousand square miles of territory in France; but they had failed to take Paris or the Channel ports and they could no longer afford

to neglect the Russian menace.

From November 15 to the end of the first year of the war, the western campaign from the German side was defensive, save for local offensive moves. The Allies repeatedly attempted to break this defensive; but on the whole no changes of strategic importance took place up to the close of the first year of the war.

ON THE EASTERN FRONT.

Wholly unlike the stubborn trench warfare that has marked all but the first phase of the western fighting has been the conduct of the war on the eastern front. Here campaign after campaign has been fought, with maneuvering of gigantic armies on a vast stage. Smashing blows have been delivered by both sides, but mainly by the Germans.

In the beginning the Austro-German military staffs erred in their estimate of the time needed for the concentration of Russia's army. Six weeks was the shortest period they gave.

RUSSIAN INVASION OF EAST PRUSSIA.

To the surprise even of the allies, the Russians moved within three weeks. As the German "fan" was opening through Belgium, the Russians pushed large forces into the Mazurian lakes district in East Prussia, while more than 300 miles away, on an air line, their forces were driving into eastern Galicia, and the advance guard of a huge army was engaging the Austrians at Krasnik, south of Lublin. Fugitives were coming into Berlin and Vienna telling of the terrors of Cossack raids.

The Germans had to weaken the force of their

blow against France by diverting large forces into East Prussia, while the Austrians had to guard Lemberg instead of driving home their ad-

vance against Warsaw.

Their very swiftness, however, brought upon the Russians one of the great disasters of the war. After other commanders had vainly striven to stop the czar's forces in East Prussia, the kaiser called from his retirement General von Hindenburg, a veteran officer on the retired list, and gave him command of an army which was concentrating about Posen for its liberation from the invaders. General von Hindenburg had during his active service commanded the German forces in East Prussia, and had an intimate knowledge of the country.

Gathering reserves, the garrisons of forts and what first line troops he could, von Hindenburg on August 27 struck the Russians at Tannenberg, south of Allenstein, and in three days practically annihilated an army of more than 250,000 men, capturing over 100,000 prisoners and killing and drowning tens of thousands more. Other swift blows that followed sent the forces under the Russian Gen. Rennenkampf back behind the

line of the Kovno-Grodno forts.

RUSSIAN INVASION OF GALICIA.

Yet this disaster did not stop the advance of the Russians. They had defeated the Austrians at Rawaruska September 3, and taken Lemberg, they had won a battle near Lublin September 5, and on the twenty-second they took Jaroslav and invested the great fortress of Przemysl. By October 22 they were conquering the Carpathian passes leading into Hungary, and their Cossacks were raiding well into the plains.

THE FIRST WARSAW DRIVE.

The German attempt to help Austria in this crisis took the shape of a sudden drive at Warsaw, through central Poland. Russia had made two great efforts, the chief endeavor directed against Austria, which had succeeded, the second against East Prussia, which had failed. But in doing this she had left central Poland bare of troops, and Germany now struck straight through the unguarded center at Warsaw in an attempt to seize this great fortress town. Hastily the Russians were forced to draw back from Hungary and the Carpathians and retire so far in Galicia as to raise the siege of Przemysl (Peremysl).

For ten days, October 14-24, a fierce struggle went on and the Germans won their way to within seven miles of Warsaw and five of Ivangorod, and forced a passage across the Vistula midway between these strongholds. But out from Novo Georgievsk fortress northwest of Warsaw the Russians suddenly launched 100,000 cavalry, which bent back the German left flank and com-

pelled a retreat to the frontier.

GALICIAN CAMPAIGNS.

In consequence of the German reverse the Austrians suffered a succession of severe defeats. Their armies were broken in a big Russian victory at Jaroslav on November 5, and part were crowded back on Krakow and part into the Carpathian passes, already partly choked with snow. So severely shaken were the Austrians that the Russians reached the outer lines of the Krakow defenses, penetrating to Wielicza, only seven miles from the city, on November seventh.

At this time Gen. von Mackensen came into public notice. General von Hindenburg had been placed in general charge of the eastern campaign, and to von Mackensen was intrusted another swift blow that would engage the Russians until the Austrians had time to recover.

THE SECOND WARSAW CAMPAIGN.

At the moment that the Russian armies were pushing toward Posen and their advance on November 7 had even captured Pleschen, on German soil southeast of that city, von Mackensen was gathering a large army based on the fortress of Thorn. He suddenly advanced, and on November 13-16 smashed Russian guarding corps on both sides of the Vistula and pushed on toward Lodz and Warsaw.

So rapid was the march in the difficult country that by November 22, von Mackensen's strong advance forces had penetrated to Brzeziny, about twelve miles east of Lodz. This rapidity, however, almost cost a great disaster, for a large part of this army, perhaps 110,000 men, was surrounded by the Russians, who hurried from south and north. The Germans cut their way out to a line west of Lodz after three days of most remarkable fighting.

Fresh forces were rushed up by the Germans, their lines were reformed, and on December 6 they took Lodz. Berlin then announced that the Russian army was broken and could not make a stand before Warsaw, but on the line of the Bzura and Rawka rivers the czar's forces stood, and six days of most determined attacks failed to dislodge them. Russians made heavy attacks early in January, and Germans again launched assaults early in February, but the lines here remained substantially the same up to July first.

GERMAN VICTORY IN MAZURIAN LAKES REGION.

While the chief armies had been engaged in the battles west of Warsaw the Russians had been slowly invading East Prussia again, and late in January had turned the head of the Mazurian lakes near Gumbinnen and were once more threatening Koenigsberg. Snow was deep on the ground and they took security in this fact.

Suddenly on February 28 a big German force

that had plowed through the snow descended on their right wing to the north of Gumbinnen and sent it flying in rout. Another force struck the left wing at Lyck, and then the two German columns converged upon the disorganized center. The Russians strove heroically to extricate themselves in a series of battles in the snow, but they lost more than 100,000 prisoners and most of their equipment.

It was this victory that paved the way for the German advance on Mitau and Riga, and its effect was felt along the whole Russian line. The Germans drove well into northern Poland, threatening the fortress of Osovietz and taking Pryzasnyz in the direction of Novo Georgievsk, while in Bukowina the Austrians retook Czer-

nowitz and raided into Bessarabia.

AUSTRIAN REVERSES.

Von Mackensen's drive for a time relieved the pressure on the Austrians, and by mid-December their armies had been reformed with a leavening of German troops, and they undertook an offensive against the weakened Russian lines in Galicia, advancing from Krakow and the Carpathians. The Przemysl garrison of more than 100,000 men also made a sortie to break through and join the armies coming through the passes. The Austrian movements were slow and ill timed, however, and the Russians were able to concentrate against the three armies in turn, smashing the Krakow forces near Tarnow on December 25 and the others within a week.

So severely were the Austrians defeated that the czar's forces were able to establish themselves firmly on the Tarnow line-so as to threaten an advance on Krakow-to overrun Bukowina, and to drive ahead into the Carpathian passes, not to be dislodged again on this line until von Mackensen's drive in the spring.

With the surrender of the Austrians at Przemysl on March 22, after a five months' siege, the tide again turned for the Russians. Some 250,000 men and many guns thus released were hurried into the Carpathians, and in a campaign extending to April 14 they broke through Dukla, Lupkow, Rostok, and other passes and established themselves at Sztropko, twenty miles inside Hungary. They also steadily hammered the enemy before Uzsok pass and beat back all attempts of the Austrians to turn their left wing in Bukowina.

RUSSIAN REVERSES.

In the latter part of April, however, warning began to come from Petrograd of a great concentration by the Germans east of Krakow intended to strike at the point where the Russian line bent into the Carpathians.

The blow fell late in April, and after a great bombardment by such masses of artillery as had never before been used by a field army, Gen. von Mackensen broke through the Russian position at Gorlice and Tarnow. He then began the smashing drive that retook Przemysl on June 3 and Lemberg on June 24, cleared the czar's troops out of most of Galicia, and led to a renewed advance toward Brest-Litovsk and the rear of Warsaw.

As von Mackensen drove eastward he compelled the Russians to give up all their hard won positions in the Carpathians and retire before the

revivified and more confident Austrians.

THE SUCCESSFUL WARSAW DRIVE.

Once Galicia was cleared the Germans inaugurated a smashing and successful drive on Warsaw from north, west, and south, the whole movement being under the general direction of Field Marshal von Hindenburg.

Early in the spring the Germans under General von Bülow had invaded northern Russia. This force worked its way southward and effected

a junction with von Hindenburg's army.

that section were resumed.

From the south von Mackensen resumed his advance, his German forces working with the Austrians to inflict smashing blows upon the Russians from this direction. Step by step the Austro-German armies pounded their way toward the city from north and south, while on the west activities along the line of intrenchments that had so long held off the Germans in

Great masses of Germans troops were now flung across the East Prussian frontier and before the apparently irresistible power of the Teutons engaged in this wide encircling movement, the armies of the Russian Grand Duke Nicholas began to fall back. Przasnysz, to the north of Warsaw, was occupied, and the German armies swept on, until by July 19 they had forced the Russians back to the line of the Narew River and were within twenty miles of their goal. The fortress of Ostrolenka was taken and the key to Warsaw on the north, the Novo Georgievsk fortifications, was approached. To the south Radom was occupied and the Russian lines of communication in the Lublin region threatened.

Then began a tightening of the German lines around the capital. The Teutons forced their way past the Blonie line southwest of the city, pushed their way across the Narew River, below Ostrolenka, and the battering at the fortified gates of the city was begun in earnest on August 3 by Bavarian troops under command of Prince

Leopold of Bavaria.

SERVIA'S PART IN THE WAR.

Of the belligerent nations, none, save Belgium, has been tried more sternly than Servia, on whose behalf the great Powers went to war. Her efforts contributed substantially to the crippling of Austrian military efficiency. Three times

during the first year of the war huge Austrian armies invaded Servia, and each time they were hurled back, crippled and defeated. On December 2, 1914, the Austrians captured Belgrade and occupied a large portion of the country. But a week later the Servian army, commanded in person by King Peter I, turned upon the invaders, pierced the Austrian lines and pursued their foes beyond the frontier. More than one-third of the Austrian army was lost, and Servia was not again invaded during the first year of the war.

ENTRANCE OF TURKEY.

Two events at the outset of the war paved the way for Turkey's participation. Nearing completion in British shipyards were two dreadnoughts with which Turkey intended to overcome the naval superiority of Greece and win back Ægean islands taken from her in the Balkan war. These the British seized. While Turkey was still fuming over the incident the German cruisers Goeben and Breslau slipped away from the British fleet in the Mediterranean and took refuge in the Dardanelles. Germany promptly turned over these vessels to Turkey under the guise of a sale.

The allies demanded that all the Germans on the cruisers should promptly be sent out of Turkey; Turkey demanded her dreadnoughts. While the dispute was going on several other troubles came up. Then on October 29 Turkish warships, including the Goeben and Breslau—commanded by German officers—made attacks on Odessa and other Russian ports in the Black Sea and on

Russian shipping.

The Turkish government tried to smooth over this incident, but would not give in to demands of the allies that all German officers be dismissed from the navy. Consequently on November 5, Great Britain and France formally declared war.

In an effort to stir up the Mohammedans of Egypt, India, Persia, Algeria, and Morocco against the allies, the Shiekh-ul-Islam at Constantinople on November 16 proclaimed a holy war. Its only important effect was to lead to the repudiation of the sultan as head of the faithful

by Mohammedan chiefs in those regions.

First hostilities consisted of naval raids by both sides in the Black Sea. Then Russia hurried an expedition toward Erzerum, in the Caucasus, in the hope of catching the Turks unprepared and of stirring up a general revolt of the Armenians. After heavy losses they were driven back to their own territory late in November, and in December the Turks sent a strong expedition against Tiflis. This came to disaster January 3–4, when the Russians annihilated an army corps near Ardahan and put two others to rout later. Since then the fighting in that region has been in the nature of a series of detached campaigns that

have spread below Tabriz in Persia and have

yielded no large results to either side.

Meanwhile a British expedition from India seized the mouth of the Euphrates river and made its way up the valley to the mouth of the Thus the British got control of a rich region and closed to European powers the last outlet to the Indian ocean, the Persian, control of which Germany has long sought with her Bagdad railway and other plans. Russia also has coveted this prize. Fighting occasionally took place in this valley, but the number of men engaged was small.

Great Britain also seized this opportunity to make secure her hold on Egypt, which she had long held as a nominal dependency of Turkey. A protectorate over Egypt was proclaimed on December 17, Khedive Abbas Hilmi was deposed and Prince Hameil Kemal was made sultan. The island of Cyprus, important in the command of the eastern Mediterranean, was formally annexed.

An ambitious attempt was made by the Turks, led by German officers, to raid the Suez canal and so cut the communications of Great Britain with the far east. During the winter large forces were gathered in Palestine, and late in January and early in February they advanced across the desert. Forces of Turks crossed the canal on February 4, but they were met by the native and Australian troops and severely defeated.

CAMPAIGN AT THE DARDANELLES.

From February 21 to March 18, a British and French fleet—composed of at least thirty-two powerful vessels, mostly of battleships of the predreadnought era, but including the superdreadnought Queen Elizabeth-hammered at the forts at the entrance to the straits. silenced and practically destroyed the outer ones and on March 18 attempted to overwhelm those at the narrows. This latter attempt resulted in the loss to the British of the battleships Irresistible and Ocean and to the French of the battleships Bouvet and Gaulois, and in serious injuries to other big ships.

Under a rain of shells from the warships the first troops made landings at five places on the western end of the Gallipoli peninsula and on the south shore of the straits on April 25. It was one of the most difficult undertakings in the history of war, for the Turks had prepared elaborate entanglements even in the water, and 50,000 men, with large forces of artillery, put the invaders, under a deadly fire. Nevertheless, within four days an army of some 80,000 had been securely landed and a system of supply had been arranged.

Then followed most desperate and continuous fighting. The Turks bravely attacked again and again in attempts to drive the invaders into the sea and the allies launched a series of general assaults that gradually won them a way through the maze of defenses and brought them close to the tops of the hills overlooking the forts of the narrows. The British battleship Goliath was sunk

in these operations on May 11.

In the middle of May the allies seemed to be in a serious plight because the fleet was compelled to cease its active support of the army in order to avoid a German submarine that had made its way through the Mediterranean. This undersea boat sunk the battleship Triumph on May 25 and the Majestic and Agamemnon on May 27. But in the attacks made by the army throughout June and July the allied fleet again took part.

ENTRANCE OF ITALY.

A substantial accession to the cause of the Allies was gained when Italy at last declared war on Austria on May 22. Soon after that date Italian troops began operations along the Austrian frontier, but up to the close of the first year of the war had been unable to break through the Austrian lines.

THE WAR AT SEA.

One of the most important aspects of the war has been the triumph of British sea-power. which has never been seriously menaced, even by Germany's clever use of submarines. It would have been impossible for German men-ofwar to survive on the surface of the waters. The several German commerce-destroyers which were at large when the war opened were run down and sunk. One great achievement of note stands to the credit of the German navythe action between the squadrons of Admiral Count von Spee and Rear-Admiral Sir Christopher Cradock off Coronel, Chili, which was fought in heavy weather, November 1, 1914. Von Spee made skillful use of his superior bat-

teries, and with small loss to himself sunk Cradock's flagship, the cruiser Good Hope, and the cruiser Monmouth. None of the crews of the ships that went down was saved. The cruiser Glasgow, the other fighting unit in Cradock's fleet, was damaged but not destroyed.

Strong British squadrons were sent to hunt

down the Germans, and the one commanded by Admiral Sturdee met von Spee at the Falkland Islands December 8. The Germans had been driven from the Pacific by Japanese and other warships and undertook a raid on the Falkland naval station. As the ships steamed toward the harbor mouth they were attacked by the battle-ship Canopus, the battle cruisers Invincible and Inflexible and four smaller cruisers. All the German vessels but the Dresden were sunken, and this met its doom March 22, when the cruisers Glasgow and Kent found it in the neutral waters of Juan Fernandez Island. On account of the violation of her waters in this last engagement Chile made a strong protest to Great

Britain and received a full apology.

In the North Sea only two real engagements took place in the first year of the war, the waters having been so thickly strewn with mines by both sides that it was dangerous for the fleets to

attempt any ambitious maneuvers.

Early in the war, August 28, a British squadron under Admiral Beatty made a daring raid on the German vessels sheltered under the guns of the Helgoland forts. At least six battle cruisers and many light cruisers and torpedo boats engaged in this venture. The British asserted that they sunk at least two destroyers, but the Germans admitted only the loss of the cruiser Ariadne and a destroyer.

Following raids by German battle and armored cruisers on the east coast of England in November and December, a German squadron was intercepted on such an errand January 24 and engaged by British battle cruisers. armored cruiser Bluecher was sunken and others were badly damaged. The Germans asserted that the British battle cruiser Tiger was sunken, but the British official and unofficial reports agreed that the *Tiger* got to port badly damaged. In the Baltic there have been several brushes of

Germans and Russians. Although the great German fleet can easily control this sea, few chances have been taken by the largest ships because of the danger from mines and submarines. In a battle October 11 the large Russian cruiser Pallada was sunken. In skirmishes in the Black Sea some small warships have been sunken.

Of even greater interest than these operations were the dramatic exploits of the German raiders that were loosed on allied commerce in the beginning of the war. It was eight months be-fore they were all rounded up, and they did dam-age that ran well above \$100,000,000.

Most famous of these raiders was the little Emden-of less than 14,000 tons but of twentysix knots speed—which coursed the waters of the far east and did damage estimated at \$20,000,000 up to November 10, when the Australian cruiser Sydney caught it at Cocos Island, in the Bay of Bengal, and drove it ashore.

This ship destroyed at least twenty-two vessels. It entered the Bay of Bengal September 10 and sunk six of them. It appeared off Calcutta September 27 and went to other harbors and spread terror among all the shipmasters in the east.

The most remarkable exploit was its invasion of the harbor of Penang. Flying a Japanese flag, and with a fourth false funnel rigged, it passed the forts. It went between a British destroyer and the Russian cruiser Jemstchug, apparently to come to anchor, and suddenly torpedoed both. Then it escaped.

A large fleet of fast cruisers was sent out to find it and finally it was rounded up as it tried to destroy the wireless station at Cocos Island. Some members of its crew, left behind as the Sydney approached, made their way to Arabia and finally arrived at Berlin.

Two of the raiders, unable to keep at sea longer, sought refuge at Newport News, Va.—the Prinz Eitel Friedrich and the Kronprinz Wilhelm.

SUBMARINE TRIUMPHS.

In submarine warfare the balance sways in Germany's favor. By long odds, the most notable submarine feat of the war was the sinking of the British armored cruisers Aboukir, Cressy, and Hogue by the German submarine U-9, commanded by Captain Otto Weddigen, on September 22, with a loss of more than 1,500 lives. But this disaster taught the British how to safeguard their ships against submarines, and in future it was much more difficult for the underwater raiders to get at them. Weddigen himself was lost with all his men on the giant new submarine U-29, when she was sunken by a British merchantman on March 25, 1915.

Among the other triumphs of German submarines was the destruction of the British dreadnought Audacious, off the Irish coast, October 27, 1914, by means not yet definitely known, and of the battleship Formidable, in the English Channel, on New Year's Day, 1915, with a loss of 700 lives. The British battleship Bulwark was blown up while at anchor off Sheerness on November 26, with all her crew, but it is supposed that this was due either to spontaneous combustion in her magazines or to an infernal machine. The Austrians have been busy with submarines since Italy entered the war. On July 7 they sunk the armored cruiser Amalfi, and on the 19th the Garibaldi, which latter, however, accounted for the submarine which struck her. An Austrian submarine was also credited with the sinking of the French armored cruiser Léon Gambetta in the Adriatic, with a loss of 600 lives, on April 27.

On their part, the British submarines have scored several brilliant feats, Commander Max Horton, in the submarine E-9, late in September sunk the German cruiser Hela in the Helgoland Bight, and on October 6 took his craft up the mouth of the Ems, where he attacked the biggest game in sight, which happened to be a mere destroyer. On July 2, while working in coöperation with the Russian Baltic fleet, he sunk the German battleship Pommern. Another British submarine dived under five rows of mines at the Dardanelles and sunk the Turkish battleship Masudieh on December 13. In May a sister craft of this vessel repeated the trick, and showed her periscope at the entrance to the Golden Horn, sinking every Turkish craft she met.

THE SECOND YEAR OF THE WAR

THE GERMAN SUCCESSES IN RUSSIA

The beginning of the second year of the Great War found the German army on the eastern front, at the doors of Warsaw. The drive against Russia was in full swing. In rapid succession the fortresses that barred the advance of Hindenburg from East Prussia, fell; von Mackensen stormed on between the Pripet Marshes and the Vistula. When Warsaw fell on August 5, Ivangorod and Novo-Georgievsk followed, and the whole Russian line reeled backward to Brest-Litovsk and Kovno.

But there was no halting there. North and south the peril of envelopment continued, and so the Russian army went back behind the Dwina, behind the Pinsk Marshes, and the Volhynian fortresses of Dubno and Lutsk fell to the Central Powers. Along this line the Germans applied the greatest pressure, but to no avail-

the Russians escaped being enveloped.

GERMAN FAILURE

From the standpoint of the object for which the German army was striving, their brilliant successes against Russia were a decided failure. It is very generally admitted that in this war, in fact in any war, the mere acquisition of territory is of small moment unless it brings with it the disabling or the capture of an army. Men are the only things that count. The German strategy in this Russian move was to seize the first favorable opportunity to eliminate Russia. On no other pretext was such a forward move justifiable. It carried the Germans hundreds of miles from their bases, lengthened their lines of communications, brought them into a country where it was impossible to live on the soil. What object could the Germans have had to gain, but the Russian Capital and the elimination of Russia? In this Germany had failed.

RUSSIA'S OFFENSIVE

Until June, the Eastern Campaign was in a deadlock, neither side gaining any important victories. Then there came a sudden change.

On June 4, Russia suddenly became awake. With a great supply of men and ammunition, and commanded by General Brusiloff, the Russian army struck out from the Volhynian fortress of Rovno, against, what were thought to be, impregnable Austrian positions. The Austrian lines were rolled back, and prisoners by the thousands fell into Russian hands. Soon the line of the Stokhod River was reached, and there a momentary check was imposed on the advancing Russians. They replied, however, by shifting the attack southward against Bukowina. Here their successes continued. On June 17 Czernowitz was taken, the gates to the Austrian Crownland were opened, and the Russians Cetinje, drove out King Nicholas and his family, poured through the gaps. In an incredibly short and set up Austrian rule in the capital.

time all Bukowina had been cleared and the Russians were firmly established on the crests of the Carpathians. Then the Russians again shifted their attack to the southern Volhynian line, moving toward Lemberg. On July 28, Brody, which is 58 miles northeast of Lemberg, was captured. About the same time General Kalendine defeated the Austro-Germans 20 miles southeast of Kovel and captured 20,000 prisoners. The Austrians, by bringing up reinforcements, succeeded in checking the Russians along the entire front.

THE BALKAN CAMPAIGN

The Austrians made several attempts to invade Serbia in the first year of the war, but each time were driven back. On October 5, however, aided by several German army corps and commanded by von Mackensen, they again invaded Serbia. By October 9, they had forced the passage of the Danube and the Save, captured Belgrade, and were in position to advance into the country.

BULGARIA ENTERS THE WAR

On October 11, the Bulgarians, who had been dickering with both of the hostile groups of nations, decided that their profit could best be obtained by joining the Teutonic Powers an arrangement which, moreover, enabled them to secure revenge for Serbia's share in the Second Balkan War of 1913. They invaded Serbia and slowly gained ground. On November 6 Nish, the former Serbian Capital, was captured, and on November 30 they took Prizrend. The Austro-Germans, forcing the Serbians before them, joined the Bulgarians at Prizrend and opened up railway connections between Constantinople and Berlin.

Awaking to the seriousness of the situation. England and France hastily started troops for Saloniki, but they were too late to do more than help a portion of the Serbians make good their

retreat.

The wreck of the Serbian army escaped into Albania and Montenegro, and after a period of recuperation was brought around to Saloniki where it joined the augmented French and British armies at that port, forming, with them, a constant threat against the German communications with Turkey.

MONTENEGRO INVESTED

In the course of the conquest of Serbia, the Teutons sent an army into Montenegro, which tiny kingdom had been fighting the battles of the Slavs, to the best of her limited ability. On January 12, the Austro-Germans captured

GREECE AND THE WAR

The Greeks, who were bound by treaty to protect Serbia against a Bulgarian attack, made many attempts to join the Allies, but were held off by their King, who is a brother-in-law of the German Emperor.

RUSSIAN ACTIVITIES IN TURKEY

On September 7 the Grand Duke Nicholas was replaced by the Czar as Commander of the eastern armies and was transferred to command

the armies of the Caucasus.

In January the Grand Duke began operations against the Turks. He achieved a decisive victory, crushing the center of the Turkish sixtymile front, near Lake Tortum, and pursuing them to the Erzerum forts. About this time Field Marshal von der Goltz was appointed Commander in Chief of the Turkish forces in the Caucasus.

On February 16, Erzerum surrendered to the Russians, after five days' fighting. This achievement surprised the world. The astonishing feature was that the campaign was undertaken in a wild tangle of mountains and in the dead of winter, when it seemed that an army could not possibly operate without an elaborate system of railroads behind it. In that country there are no railroads. Dependence for supplies has to be placed upon miserable dirt roads which, at wide intervals, traverse the country. The Russian fleet, of course, controlled the Black Sea, and it was by this channel that supplies were transported. But even from the Black Sea, a long trip overland was necessary. Thus, the two most spectacular achievements on the Allies' side fell to Grand Duke Nicholas and the Russian army, they also having captured Przemysl on March 22, 1915.

The surrender of Erzerum was followed by a period of apparent inaction. On April 18, how-ever, the Russians succeeded in capturing Trebizond. The Russian right flank was evidently keeping up with the center. Then followed a

period of maction, which the most remarkable march in history. Taking Baiburt, defeating the Turks at Mamakhutan, the Russians pressed forward. On July 25 they were in possession of Erzingan, the last of the Turkish bases east of Sivas, and practically cleared Armenia of Turks. Russia now occupies about 30,000 square miles of Turkey in Asia including seven fortified towns. All this was achieved in about seven months of fighting.

THE GALLIPOLI CAMPAIGN

to force the passage of the Dardanelles, take Constantinople, and in this way give Russia an outlet into the Mediterranean Sea. If this were accomplished. Russia would have shorter communications with her allies. But the undertaking was not successful. On August 6, a new army of Australians and New Zealanders made a landing at Anzac Cove. Except for a few small gains, the Turks held them along the coast until December, when the Allies realized that their efforts were fruitless, and withdrew over 70,000 Colonial troops. The remainder of the allied forces were withdrawn on January 9. After an attempt of nine months, with a British loss of 115,000, and a French loss of 70,000, the campaign was given up as a failure.

BRITISH OPERATIONS IN ASIA

Coincident with the attack upon the Dardanelles, a British expedition was dispatched to Mesopotamia, at the head of the Persian Gulf. with Bagdad as its objective. The British were successful at first, capturing Kut-el-Amara, on the Tigris, on September 27. On November 22, an army of 20,000 Anglo-Indians was pushed up to Ctesiphon, eighteen miles from Bagdad, where it defeated 60,000 Turks, but was obliged to retreat for lack of supports and supplies. Pursued by the Turks, who had been reinforced, the rearguard of this force, some 10,000 men, under the command of General Townshend, intrenched themselves in Kut-el-Amara. they held out from December 11, 1915, to April 29, 1916, when starvation compelled them to surrender. Several British attempts to relieve Kut-el-Amara ended in failure. The only excuse for these two disasters to the British arms is that they served to divert the Turkish military strength from a threatened drive across the Suez Canal into Egypt.

THE WESTERN FRONT

No important action was seen on the western front until September 20. After many months of preparation, and a relative quiet which had lasted since June, 1915, the long promised Allied attack upon the German lines began. French in Champagne, and the British in Artois, launched terrific attacks.

In ten days of bitter fighting the French advanced some three miles on a front of eighteen. took above 25,000 prisoners and many guns; they penetrated two lines of German trenches and at one point actually broke through the

third and last.

But the result was nothing. The German line was restored, the French attacks were beaten One of the greatest disappointments in the down, the whole offensive was really over in war, was the failure of the Allies on the Gallipoli three days, and in a week, the world knew that Peninsula. The object of this undertaking was the French had failed, although the considerable number of prisoners and the large capture of guns misled many into estimating as a victory what had been a defeat, for the German line

In Artois the British accomplished even less. Their initial success was considerable. There was a moment when the capture of Lens seemed inevitable, but old faults reappeared. blunders of Neuve Chapelle were repeated; sup- Italians to abandon their positions and taking ports did not come up; Loos, won on September 25, had to be surrendered; for great sacrifices in life, there was little to show. The failure at Loos cost Field Marshal Sir John French his command, and on December 15, General Sir Douglas Haig succeeded him as Commander in Chief of the British forces in France and Belgium. It also condemned the British army to inaction, and the British people to depression soil. Then the Italian counter-offensive began. for many months.

settled down to artillery duels, neither side gain- lost to the Austrians. ing any advantage, until the attack on Verdun.

VERDUN

On February 21 the German Crown Prince, commanding an army of 300,000, attacked the forts surrounding Verdun. This attack suddenly claimed the attention of the world, and for many weeks seemed certain to end in a crushing French

defeat.

But Verdun, after the first surprises were over, held. The broken lines were restored, as French reinforcements came in time. Before the old forts a second line was erected and the German advance was halted. The repulse of March 9 was fatal to German hopes for a sudden and sweeping victory, a piercing of the line, such as France had sought and missed in Champagne in September. The repulse of April 9 ended the possibility of success by any sudden and tremendous general thrust. Henceforth Verdun fell to the level of a siege operation and Germany advanced by yards, over mountains of her own dead, while on the hills across the Meuse new French lines sprang up until the Verdun salient became the strongest sector in the French front.

THE SOMME OFFENSIVE

While the Germans were making a great effort to capture Verdun, the British and French were preparing for another drive. On July 1, the long expected offensive began north and south of the Somme River. The British advanced about five miles and took a number of villages between July 10 and 22.

The French advanced over six miles, capturing five towns. German reinforcements from before Verdun arrived and halted the advancing Allies. This is the situation, on the western front, at the

close of the second year.

THE AUSTRO-ITALIAN CAMPAIGN

There was but little important action on the Italian frontier, until April 15, 1916, when the Austrians concentrated their army, to begin a new offensive against Italy. Before this time the Italians had succeeded in gaining advance positions in the Trentino. On May 13, the Austrians launched their great offensive, forcing the many prisoners.

Early in June the Austrian drive was slackened by the Russian offensive on Austria's eastern border. The Austrians, in order to stop the advancing Russians, moved many troops from the Italian frontier for service against the Slavs. This, however, was not done until the Austrians had advanced some miles on Italian At the end of the second year we find them con-Again the situation at the western front tinuing their offensive, regaining much ground

PORTUGAL ENTERS THE WAR

When, on February 23, Portugal seized 36 German and Austrian interned merchantmen, Germany sent her an ultimatum, which demanded immediate release of these vessels. With the refusal of Portugal, Germany declared war on March 8. Although she does not take a very active part against Germany in Europe, she greatly aided the Allies in the conquest of German colonies.

LOSS OF GERMAN COLONIES

Of 1,027,820 square miles of German oversea possessions, only 384,180 square miles remain. The German Colonials, fighting against great odds, without any help from the Fatherland, and with no chance for reinforcements, were forced to surrender their land to the allied armies. One by one, the colonies were taken, until at the end of the second year only part of German East Africa remained in German hands. Even this territory was gradually being closed in by the armies of General Smuts, in direct command of the Union of South Africa troops, aided by French, Belgian and Portuguese Colonial armies.

THE BATTLE OFF JUTLAND

The greatest battle in naval history, in tonnage and calibre of guns employed and in the loss of tonnage and lives, was the engagement between British and German warships, west of Jutland Bank in the North Sea, off the coast of Denmark.

On the afternoon of May 31, the British battle cruiser squadron, under Vice-Admiral Sir David Beatty, and the fifth battle squadron, under Rear Admiral Hugh Evan-Thomas, encountered the German first and second light cruiser squadrons, later joined by the entire high seas fleet.

German warships have made a number of daring raids on the English coast, but have accomplished nothing thereby save the destruction of lives of non-combatants and considerable property. A German auxiliary cruiser, the Mowe passed the blockade and, in waters outside the War Zone, did great damage to enemy shipping and finally returned in safety to her home port.

SUBMARINE OPERATIONS

During the second year, the German subma-combatant lives. rines did but little damage to the allied navies. Except for torpedoing a few transports, they confined their warfare to attacks upon unarmed merchantmen, sinking them without warning.

LOSS OF WARSHIPS

Up to August, 1915, according to Senate Document 3 of the Sixty-fourth Congress, the allied navies had lost a total of 71 warships, with a tonnage of 326,885. Of these Great Britain Serbia. had lost 42 ships of 254,494 tons-8 battleships, 3 armored cruisers, 4 protected cruisers, 4 light cruisers, and 24 smaller craft; France 12 ships of 28,027 tons, Russia 6 ships of 21,775 tons, Japan 7 ships of 4,801 tons, and Italy 4 ships of 17,758 tons. Germany, Austria, and Turkey had lost 89 ships, with a tonnage of 262,791. Of these Germany had lost 69 ships of 238,904 tons—1 battle cruiser, 5 armored cruisers, 10 protected cruisers, 3 light cruisers, and 50 smaller and auxiliary craft; Austria 7 ships of 7,397 tons, and Turkey 13 ships of 16,490 tons.

In the second year of the war, official records in regard to the losses of submarines and auxiliary cruisers are incomplete, and transports are not scheduled as warships. In this year the allies lost 41 ships with a tonnage of 202,600, and the Central Empires, 33 ships with a tonnage Germany.

In the evening, Beatty was reinforced by seven of 125,120. Great Britain's loss was 34 shipsdivisions of the British battle fleet under the 2 battleships, 3 battle cruisers, 3 armored Commander in Chief, Admiral Sir John Jellicoe.
Cover 9,500 lives were lost in this engagement, both sides claiming victory.

GERMAN RAIDERS

GERMAN RAIDERS

GERMAN RAIDERS

Cover 9,500 tons. Germany's loss was 26 ships—4 battleships, 1 battle cruiser, 6 protected cruisers, and 15 smaller craft and auxiliaries, with a total of 114,620 tons.

MERCHANT VESSELS SUNK BY GERMAN SUBMARINES

During the first year of the war, or from February 18, 1915, when Germany began her submarine warfare against merchantmen, till August 1, 1915, German submarines sank 205 merchant craft belonging to the Allies and 59 to neutral nations, with a total loss of 1,641 non-

In the second year of the war, Austrian and German submarines are responsible for the loss of 983 noncombatant lives on board of 518 merchant craft, of which over 72 belonged to

neutral nations.

POWERS WHICH ARE NOW ENGAGED IN THE GREAT WAR OF THE WORLD

July 28, 1914—Germany declared war on

Aug. 1—Germany declared war on Russia. Aug. 3—Germany declared war on France.

Aug. 4—Germany declared war on Belgium. Aug. 4—England declared war on Germany.

Aug. 6-Austria declared war on Russia.

Aug. 7—Montenegro declared war on Austria. Aug. 10—France declared war on Austria. Aug. 12-Montenegro declared war on Ger-

many. Aug. 12—England declared war on Austria.

Aug. 15-San Marino declared war on Germany and Austria.

Aug. 23—Japan declared war on Germany. Aug. 25—Portugal declared war on Germany. Aug. 25-Austria declared war on Japan.

Nov. 5—England declared war on Turkey. Aug. 27, 1916—Roumania declared war on

FACTS SHOWING THE POWER OF 42 CENTIMETER MORTAR 16.5 HOWITZER

Weight of gun proper	97-4/5 ton
Weight of gun proper	41-1/4 "
Length of barrel	16 ft., 5 in
Weight of shell	885 lbs.
Number of parts in the gun	172 -
Railroad cars needed to transport it	12
Foundation must be sunk to depth of	26 feet
Liege was shelled from distance of	
Casualties caused by 1st shot	1.700

The gun crew proper have protectors over emplacement is mined and the engineer in shock of the discharge. The ground of the gun

2 shots 1 shot

 Huy
 25-26

 Adjustment of range by other guns lasted.
 6

 Gun discharged from distance of.
 300

 All windows broken within radius of.
 2

 Each shot costs.
 \$2,618

 To serve gun it takes.
 200

 ... 25-26 hours ... 6 hours 300 yards 2-1/3 miles 200 men

their mouths, eyes and ears, and lie on their charge is sworn to blow up the gun, if it is in stomachs to keep from being injured by the any danger of capture.

GAZETTEER OF THE UNITED STATES

AND

NON-CONTIGUOUS TERRITORIES

Maps show more important cities and towns, navigable streams, canals, principal mineral deposits, and highest point of land with elevation in feet; chief mountain ranges are named.

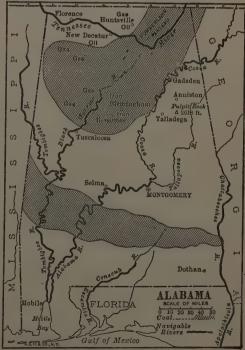
ALABAMA

ALABAMA, one of the East South-Central States of the Union, lies between latitudes 30° 13′ and 35° N., and longitudes 84° 48′ and 88° 30′ W. It is bounded on the N. by Tennessee; on the E. by Georgia and Florida; on the S. by Florida and the Gulf of Mexico; on the W. by Mississippi. Alabama is 336 m. in extreme length, 220 m. in width, and ranks twenty-eighth in area (51,998 sq. m., of which 719 sq. m. are water surface) among the states of the Union.

All the leading features of the Appalachian system may be traced in Alabama, in which state they terminate. The surface rises from tide-level in the vicinity of Mobile Bay to elevations of 1800-2000 ft. in the northern counties of the state. All of the southern and western portions of the state lie within the Coastal Plain. which is slightly rolling and hilly near the center of the state, and slopes gently southwest and south to the Mississippi River and the Gulf coast. The Piedmont Plateau district, with a general elevation of about 1000 ft., occupies the east central part of the state, including Randolf, Clay, Tallapoosa, and Chambers Counties. The southern extremity of the Appalachian Mountain system occupies the northern third of Alabama, giving to that portion of the state a diversified and picturesque surface. A number of mountain ridges enter the northeastern part and extend in a general southwesterly direction towards the center of the state. They range in elevation from 800-2000 ft., are characterized by flat tops, and inclose numerous limestone valleys. These valleys are links in the chain of valleys which in their entirety make up the Great Appalachian Valley, the Coosa Valley being the southern-most link. In the extreme north the Cumberland Plateau extends across the state from east to west. It is rugged in its eastern portion and much dissected throughout by the numerous streams flowing to the Tennessee River, towards which the plateau gradually slopes. The country bordering both shores of the Tennessee is gently rolling, and lies at an elevation of 400-700 ft. above the sea.

Drainage. The northern part of the state is drained by the Tennessee River and its tributaries. South of the plateau region the drainage is almost wholly to the southwest. The Coosa River from Georgia joins the Tallapoosa from

the Piedmont section, and the united rivers form the Alabama. The Tombigbee River, entering the state from Mississippi near the middle of its boundary with Alabama, unites with the Black Warrior, at the point where Green, Sumter, and Marengo Counties meet. Continuing its southerly course, the Tombigbee joins the Alabama at the southern point of Clarke County, and their waters are discharged into Mobile Bay by the Mobile and Tensas Rivers. The Chattahoochee River forms part of the Georgia boundary. Mobile Bay, an inlet from the Gulf of Mexico. extends northward into the state for about thirty-five miles. It varies in width from seven to nineteen miles. At its entrance is Dauphin Island, and at its head is the city of Mobile, the leading commercial town of the state.



Climate. The climate of Alabama is fairly temperate and equable. The summer temperature rarely exceeds 95° F., but the uniformity of the summer heat renders the climate very oppressive to those who are not acclimated. The hilly regions are cool, and the islands of Mobile Bay have delightful sea breezes. The highest temperatures are recorded in the south, Mobile having an annual mean of 67° F. with a summer mean of 81° and a winter mean of 52° F. At Montgomery the annual mean is 66°, with a winter average of 49° and a summer average of 81° F. The annual precipitation is about 60 in. in the south, and about 50 in. for the rest of the state. Snow occurs about once each winter, but soon disappears. The prevailing winds are

from the south. Agriculture. The soils are extremely varied, ranging from dark mucky loams along the immediate coast line to sands, sandy loams, and the heavy clay soils of the inland regions. In the south-central part a strip of dark calcareous prairie extends almost due east and west from Montgomery County to Sumter County, where it crosses the line into Mississippi. This section is known as the "Black Belt," and also as the "Cotton Belt." Between this section and the Tennessee Valley is the mineral region, with sandy loam soils of varied fertility. North of the mineral section is the cereal belt, comprising the Tennessee Valley and counties beyond, whose soils are the red clays and dark loams of the river valley. More than three-fifths of the state's entire land area is in farms, and agriculture gives employment to nearly 65 per cent of the population. Cotton is the chief product, its value being nearly twice as great as the aggregate value of all of the other crops. Next in importance are: Indian corn, wheat, oats, and hay. Besides the staple fruit crops, Alabama farmers have recently experimented with pecans, Japanese persimmons, and Satsuma oranges, and many cotton farmers are taking up horticulture and market-gardening because of the ravages of the boll-weevil.

Forests. Approximately three-fourths of the total area of the state is woodland. The principal trees are the yellow pine, oak, and poplar; and the state's output in forest products, including turpentine and rosin, is very great.

Fisheries. The state has oyster, shrimp, terrapin, and turtle fisheries, all being under the supervision of a state commission, whose duties include the preservation and development of the fisheries, and the control of the canneries of sea foods.

Minerals. The mineral wealth of Alabama is very great, and in the production of iron ore of all classes she ranks third in the Union. The iron industries are centered in the Birmingham district. Alabama ranks sixth among the coalproducing states. Gold, silver, lead, copper, tin, and beauxite have been discovered, but are not worked. Natural gas and petroleum were discovered at Fayette in 1909, but the field is

still undeveloped. Mineral springs are very numerous, and a little mica is found.

Manufactures. The state is traversed by nearly all the trunk line railroads of the South, and most of these pass through Birmingham, the principal manufacturing center of the state. The Alabama and Tombigbee Rivers with their tributaries furnish facilities for navigation. Mobile is one of the most important seaports on the Gulf of Mexico, and the two ports of New Orleans and Pensacola in the adjoining states are easily accessible by rail. Besides the advantages just mentioned, the growth of manufactures in Alabama during the last thirty years has been due largely to the development of rich mineral resources, particularly in the northern part of the state. The close proximity of the coal fields to the iron mines has made the iron industry very prosperous. The great abundance of available coal and extensive forest resources have given a marked impetus to other manufacturing industries. The leading industries of the state (in the order of their value) are: lumber and timber products, cotton goods, manufactures of iron and steel, foundry and machine shop products, cottonseed-oil and cake, coke, cars and general shop construction by steam railroad companies, fertilizers, and flour- and grist-mill products.

Education. The public school system is supported by state and county taxes, the latter providing for the maintenance of separate schools for white and colored. Connected with the work of the rural schools are the Boys' Corn Clubs (first organized in Alabama in 1910) for interesting boys in scientific agriculture. Besides the primary and intermediate schools, county high schools give preparation for the higher schools of the state. The latter include normal schools for whites at Florence, Jacksonville, Troy, and Livingston; and for negroes at Montgomery, Tuskeegee, and Normal; the University of Alabama (co-educational) at Tuscaloosa; the Alabama Polytechnic Institute at Auburn, which is a state college for training in agriculture and the mechanic arts; the North East Alabama Agricultural and Industrial Institute (for whites), at Lineville; and the Alabama School of Trades and Industry for Boys and Young Men (white), and Addustry for Boys and Toding Men (white), at Ragland. Among the sectarian and other schools are: Southern University (Methodist Episcopal, South), at Greensboro; Howard College (Baptist), at East Lake (Birmingham); Spring Hill College (Roman Catholic), near Mobile; Talladega College (for negroes), at Talladega; and the Tuskeegee Normal and Industrial Institute (for negroes), at Tuskeegee.

Government. With the usual restrictions in regard to age and residence, the right to vote is limited to those males who can read and write any article of the Constitution of the United States; and who either have worked or been regularly engaged in some lawful employment, business or occupation, trade or calling for the greater part of the twelve months next preceding

the time they offer to register (unless prevented from labor or the ability to read and write by physical disability), or who own property assessed at \$300 upon which the taxes have been paid; but those who have served in the army or navy of the United States or of the Confederate States in time of war, their lawful descendents in every degree, and persons of good character who understand the duties and obligations of citizenship under a republican form of government, are relieved from the operation of this law provided they registered prior to December, 1902. No man may vote in any election who has not by the first of February next preceding that election paid all poll taxes due from him to the state. Any person guilty of criminal offence, including the selling, buying, or offering to buy or sell a vote, is debarred from voting. Ex-ECUTIVE. The executive officials are a governor, lieutenant-governor, attorney-general, state auditor, secretary of state, state treasurer, superintendent of education, and commissioner of agriculture and industries, all of whom serve for terms of four years. None of these officers is eligible for reëlection, and the governor is not eligible to election or appointment to any office in the state or to the Senate of the United States, during his term or within one year after the expiration thereof. The lieutenant-governor is ex-officio president of the Senate, and succeeds to the office of governor in case of vacancy. The attorney-general, secretary of state, and state auditor constitute a board of pardons, who hear petitions for pardons, commutation, or parole in cases of felony, and who advise the governor thereon; but the decision of the governor does not need to conform to that of the board. The governor may veto any bill, or any item of an appropriation bill, but a majority vote of each house may override that veto. A bill becomes a law if the governor fails to pass upon it

within one week after it has been submitted to him. LEGISLATIVE. The legislative body consists of a Senate and a House of Representatives. the maximum limit of membership being 35 and 107 respectively. The number of senators must not be more than one-third nor less than onefourth that of the representatives. Senatorial districts are composed of contiguous, undivided counties. The legislature meets quadrennially at Montgomery, the sessions being limited to 50 days. JUDICIARY. The judiciary branch of the government consists of a supreme court, circuit courts, chancery courts, courts of probate, and such courts of law and equity inferior to the supreme court as the legislature may from time to time establish. The circuit court, or a court having the jurisdiction of a circuit court, is held in each county of the state at least twice every year. The state is divided into districts, in each of which the chancellor holds court at least twice each year. Courts of probate exist in each county. Judges of the supreme court, circuit courts, chancery and probate courts are elected for a term of six years. For each judicial circuit a solicitor (prosecutor) is elected for a term of four years. Local Government. Each precinct has two justices of the peace and one constable, excepting precincts lying within towns of over 1,500 inhabitants, in which precincts the legislature may establish inferior courts in lieu of justices of the peace. The legislature of 1911 created a state court of appeals, which has final jurisdiction in certain cases.

History. Alabama was settled by the French in 1702. The territory north of latitude 31° was ceded to Great Britain in 1763, and to the United States in 1783; the remaining territory was ceded by Spain to the United States in 1819, in which year it was admitted to the Union. It seceded January 11, 1861, and was

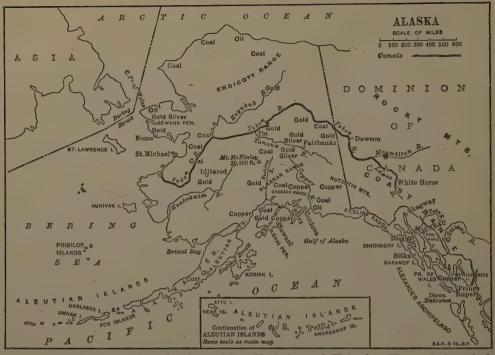
readmitted in July, 1868.

ALASKA

ALASKA is a non-contiguous Territory of the United States, occupying the northwestern extremity of the North American continent, with neighboring islands. It is bounded on the N. by the Arctic Ocean and Bering Sea, on the E. by Canada, on the S. by the Pacific Ocean, and on the W. by Bering Sea and the Arctic Ocean. The territory is separated from Asia by Bering Strait, about 56 m. wide at its narrowest point. The international boundary between the United States and Russia follows about the 169th meridian to a point opposite Cape Prince of Wales; from there it bends to the west and southwest and passes finally midway between Copper Island, off Kamchatka, and Attu Island of the Aleutian chain. The territorial domain of Alaska therefore includes all islands in Bering Sea and those of the Aleutian chain lying east of that line. The mainland portion comprises the large continental mass lying west of 141° W. longitude and a narrow coastal strip, sometimes

called the Panhandle, which extends southeast-ward along the Pacific Ocean. The international boundary between Canada and this coastal strip follows a line drawn "east and north from Cape Muzon, in latitude 54° 40' N., to the head of Portland Canal, and thence follows the summit of the mountains situated parallel to the coast to the 141st meridian, but when such line runs more than ten marine leagues from the ocean, the limit is formed by a line parallel to the windings of the coast which must not exceed the distance of ten marine leagues therefrom." Alaska has an area of 590,884 sq. miles.

Coast. According to the United States Coast Survey, the general ocean coast line is about 4,750 m. long, and including the islands, bays, inlets, and rivers to the head of tide water, is about 26,000 m. in length. The northern and western coasts are regular in outline. The Arctic is bordered by a broad coastal plain, and on the west are many long straight beaches.



The southern coast is very irregular, is precipitous, and has few stretches of beach or plain. Towards the west its elevation gradually decreases. Jutting out from the mainland are Kenai Peninsula on the south, Alaska Peninsula on the southwest, and the rugged Seward Peninsula, which terminates in Cape Prince of Wales, on the west.

Islands. The Alexander Archipelago is an assemblage of over 1,100 islands, extending along the coast of the Panhandle region from Dixon Entrance, 54° 40' N., to Cross Sound, 58° 25' N. These islands are remnants of a submerged mountain system. They rise from 3000 to 4000 ft. above the sea, with bald, sheer sides, and their tops are heavily forested. The interinsular channels of this archipelago are carried up into the shore of the Panhandle region as fjords, heading in rivers or glaciers. The principal islands of the Archipelago, from north to southeast, are Chichagof, Baranof, Admiralty, Kupreanof, Kuiu, Prince of Wales (the largest Alaskan island, about 140 m. long and 40 m. wide), Etolin, and Revillagigedo. Southwest of the Kenai Peninsula are the Kadiak (Kodiak) Islands, separated from Alaska Peninsula by Shelikof Strait. The Aleutian chain of islands consists of about one hundred and fifty small islands in the North Pacific Ocean, the most westerly island of the chain being about 1200 m. westward from the mainland. The archipelago comprises four groups, the Fox, Andreanof, Rat. and Near Islands, the largest of the chain being

Unalaska and Unimak. The majority of the islands are of volcanic origin, and there are still many active volcanoes among the cones on the north side of the chain. The coasts are rocky and the approaches very dangerous. The general elevation decreases from east to west, the chain being in reality a continuation of the Aleutian Mountains on the mainland of Alaska. The islands in Bering Sea include the Pribilof group, Nunivac Island, St. Lawrence Island, and a

number of small islands.

Relief. The mainland of Alaska comprises: (1) the large continental mass containing fivesixths of its area, and consisting of a vast expanse of moor, or tundra, broken here and there by mountain ranges and varied by countless lakes, water courses, and swamps; (2) the southeastern projection known as the Panhandle, a region abounding in sublime and picturesque scenery, with evidences of glacial action on every hand. The glaciers of this region are remarkable both for their number and their size. They lie mainly between latitudes 56° and 61° N., in a belt 1,000 m. long. Here are thousands of Alpine glaciers from one to fifteen miles in length. "In a broad way, the main features of Alaskan topography correspond with those of the western states. There is a Pacific Mountain System, a Central Plateau Region, a Rocky Mountain System, and a Great Plains Region. These four divisions are well marked, and show the close topographic relation of this area to the

southern part of the continent." The Pacific Mountain System includes four ranges: the Coast Range of the Panhandle; the St. Elias Range, including the mountains between Cross Sound and Mt. St. Elias, as well as the Chugach, Kenai, Wrangell or Skolai, and Nutzotin Mountains. The highest peaks in the St. Elias Range are Mt. Wrangell (17,500 ft.), an active volcano; Mt. St. Elias (18,024 ft.); and in Canadian territory Mt. Logan (19,539 ft.). The Pacific Mountain System includes also the Aleutian Range of the peninsula and the Alaskan Range a little farther inland. In the Alaskan Range are many snowy summits, among them Mt. Mc-Kinley (20,300 ft.), the loftiest peak in North America. In this range also are more than a dozen live volcanoes. The Rocky Mountain System extends from the Yukon Territory of Canada into northeastern Alaska, the ranges of which it is composed forming a broad belt running nearly east and west. Between the Pacific Mountain and the Rocky Mountain Systems lies the Great Central Plateau Region. This is a region of flat-topped ridges, rounded hills, level stretches, and occasional areas of rugged mountains. In height, it varies from about 5,000 ft. close to the bases of the mountain systems to 2,500 ft. or less in the vicinity of the main streams. Between the Rocky Mountains and the Arctic Ocean is the Arctic Slope Region, which corresponds to the Great Plains Region of the United States. Very little is known of this part of Alaska.

Drainage. The Stikine, Taku, and Alsek Rivers of the Panhandle traverse the mountain ridges in deep-cut canyons. The Yukon River, one of the great drainage systems of the world, has a length of more than 2,000 m. and bisects the country from east to west. Its two main affluents in Alaska are the Tanana, for the most part unnavigable, and the Koyukuk, navigable for more than 450 m. by river steamers. The Yukon is navigable from May to September, and steamers ply on several of its larger tributaries, making the aggregate navigable waters about 3,500 m., three-fourths of which are in Alaska. The Kuskokwim, the second river of the Territory in size, is navigable by steamers for 600 miles. The Copper and the Susitna are the principal southward flowing streams; both of these rivers have their sources in lofty mountain masses, are swift and powerful streams, and are unnavigable. Most of the rivers of Alaska and their main tributaries run through deep picturesque canyons, and in their principal courses receive many glacial and torrential affluents.

Climate. A careful study of isothermal lines shows that much of southeastern Alaska has a temperate and equable climate, while much of the continental mass to the northward has a gentler climate than that of Stockholm or Petrograd. The climate at tide level and among the islands is singularly mild for the latitude, but in almost any season rains prevail. On the upper Yukon the summer heat is often intense, the

mercury frequently registering 90°-95° in the shade. At Sitka the mean annual temperature is 45°, and the yearly rainfall upward of 80 inches. The winters of the interior are very severe, the temperature often dropping to -60° and -70°F.

Agriculture. The United States Government has demonstrated that the soil of Alaska is capable of agricultural development, and that it will produce in abundance all that can be raised in the Scandinavian countries—the hardy cereals, vegetables, and berries, as well as live stock. It is now believed that Alaska can be made self-sustaining agriculturally, notwithstanding the fact that the short summers are a

great hindrance.

Forests. The timber resources of Alaska are enormous, and are practically untouched. The forests of the southeast and south include the balsam-fir and the red cedar; more widely distributed is the yellow or Alaska cedar, a very hard and durable wood. The most abundant trees are the coast and alpine hemlocks and the Sitka spruce, the latter being the characteristic and universal tree of the territory. Timber is fairly abundant along the entire courses of the Yukon and its great tributaries. The woods consist almost entirely of spruce. Toward the Arctic Circle, timber becomes sparse, low, gnarled, and distorted. The national forests in Alaska, on January 1, 1915, had an area of 26,631,376 acres.

Fisheries. The fishery industries of Alaska are second in importance only to the mineral industries. Herring, cod, and salmon are aught in enormous quantities and canned or dried for shipment to the markets of the world. On the Karluk River, Kadiak (Kodiak) Island, is the greatest salmon fishery in the world. The furseal industry, at one time nearly destroyed, is reviving to some extent under the protection now afforded by the United States government. The walrus, sea otter, and other valuable fur

animals are near extermination.

Minerals. The mineral wealth of Alaska is great and varied, and mining interests have occupied first place in the industrial life of the territory since 1880. Gold districts are scattered over the whole interior of Alaska; the quartz mines near Juneau are among the greatest stamp mills of the world. From 1880, when gold first began to be mined in Alaska, until 1914, the gold product of the territory amounted to \$244,292,540. There are almost unlimited quantities of a high grade of lignite coal in the interior of Alaska, which can be converted into electricity for use in the mines and widely distributed for lighting, heat, and power Toward the southern coast of the peninsula are large fields of a high grade bituminous coal and some anthracite. Alaska has valuable tin, copper, and lead deposits, and petroleum, gypsum, and marble are found.

Education. The Territory is well supplied with schools, both for the native and white population. A number of Alaskan children (in-

cluding Thlinget and Aleuts) are sent to the United States Training School, at Carlisle, Pa. The United States Government is fully alive to the educational needs of the territory, and makes

liberal appropriations for schools.

Government. By the act of Congress, approved August 24, 1912, Alaska became a Territory with a legislative assembly comprising a Senate and a House of Representatives. Congress reserved to itself the right to legislate on certain subjects so that the Territory is now governed conjointly by Congress at Washington, and by its local legislative assembly. Regular session are held biennially at Juneau, the session being limited to sixty days. The governor is appointed by the President for a term of four years, and is assisted by a secretary, a surveyor-general, and other officials. For the

administration of justice, the Territory is constituted as a judicial district with four subdivisions and four courts.

History. Alaska, formerly called Russian-America, was first visited by Vitus Bering in 1742. In 1799, the whole country passed under the control of the Russian-American Company. In 1867, the United States purchased the entire territory from Russia for \$7,200,000 in gold. When Mr. Seward, our Secretary of State, concluded the negotiations for the purchase of Alaska, there were many critics who felt that the country was paying a great price for comparatively valueless territory. It is interesting in this connection to note that as a return for the \$7,200,000 purchase money the United States has had added to its wealth nearly \$600,000,000.

ARIZONA

ARIZONA, one of the Mountain States of the Union, lies between latitudes 31° 20′ and 37° N., and longitudes 109° and 114° 44′ W. It is bounded on the N. by Nevada and Utah; on the E. by New Mexico; on the S. by Mexico; and on the W. by Mexico, California, and Nevada. Arizona has an extreme length from north to south of 390 m. and an extreme width from east to west of 335 miles. In area it ranks fifth among the states of the Union (having a

gross area of 113,956 sq. m., of which 116 sq. m.

represent water surface). Arizona has three distinctly marked physiographical divisions: (1), the plateau region, which occupies the northeastern third of the state; (2), the mountain region, a belt from 75 to 160 m. in breadth which, running from northwest to southeast, crosses the central part of the state; and (3), the desert plains region which lies southwest of the mountainous belt. The plateau region ranges in elevation from 4,000 to 8,000 ft. above sea level, with mountain masses which rise to altitudes of over 12,000 The plateau presents great diversity of surface—wonderful river canyons, bold buttes, stretches of desert plain, lofty and picturesque mesas, forests, and now and then a miniature valley clothed in green. To the northwest the plateau is cut by the Grand Canyon of the Colorado, whose walls for 300 m. and more rise precipitously from 3,000 to 5,000 ft. above the bed of the river. Along both sides of the Colorado is the Painted Desert with the wonderfully vivid colorings of its clays, shales, and sandstones. Another natural curiosity of the plateau region is the Petrified Forest, which is reached from either Holbrook or Adamana. The forest, now a government reservation, and so secure from vandalism, covers an area of over 60 sq. miles. It contains hundreds of logs and blocks of agate, chalcedony, jasper, and other deposits. Everywhere in the plateau region are the marks of wind and water erosion and of volcanic action. It is separated from the mountain belt by a transition slope or escarpment of varying depth. The San Francisco mountains (12,794 ft.), a volcanic group northwest of Flagstaff, are the loftiest elevations of the state. The mountain belt is occupied by many short ranges or spurs, trending parallel with the plateau escarpment and there are also many isolated and detached The third physiographic region of Arizona lies within the extremely arid southwestern portion of the United States. It consists of broad desert plains, interspered with nearly parallel mountain ranges, lower and less compact than those of the mountain belt, but having the same general northwestern and southeastern trend. This portion of Arizona rises from an altitude of approximately 350 ft. above sea level along the lower course of the Colorado River, to a general elevation of about 2,000 ft. in the desert plains, with altitudes in excess of 4,000 ft. in the mountain ridges which

cross those plains.

Drainage. The Colorado River enters Arizona from Utah and runs for about 300 m. through a deep chasm called the Grand Canyon of the Colorado. Below the canyon the river runs southward, forming the boundary between Arizona on the one side and Nevada, California and Mexico, on the other, and enters the Gulf of California. Steamboats can ascend it about 500 m., to the mouth of the Virgin River. The Colorado receives no important tributaries from the west; the larger ones from the east are the Gila, the Little Colorado or Chiquito, and the San Juan. The Gila River in Arizona runs generally westward through an arid region diversified by mountains and tablelands, and enters the Colorado River in Yuma County. Its largest affluents are the Rio Verde, the Santa Cruz, and the San Pedro.

Climate. In general, the climate of Arizona is characterized by a wonderfully clear atmosphere and low humidity. The temperature in the mountains of the plateau region ranges from that of the temperate zone to that of sub-arctic regions. South of the mountain belt it ranges from temperate heat in the foothills to semitropic heat in the southwest. The average annual temperature over the region north of 34° N. latitude is about 55° F.; that of the region south of the same parallel is about 68½° F. In the Gila valley the mean temperature for July is about 98° F. and records of 125° F. are not Intense heat prevails throughout unusual. July, August, and September. The mean annual humidity at Yuma is about 39, at Phœnix 36.7, at Tucson 37.8. During two-thirds of the year the climate of Arizona is delightful; the nights are cool, the mornings invigorating, and the days dry and bright. The mean annual rainfall varies from 2 to 10 in. in the western half of the state, and from 10 to 25 in. in the

Agriculture. The soils are in general rich, but deficient in nitrogen, and to a lesser extent in humus. In limited areas there is an excess of white alkaline salts. The floors of the desert plains are made up of gravelly and sandy detritus washed down from the mountains, together with sandy loam, loam and adobe soils in the vicinity of the larger streams or in the centers of the basin-like plains. The plateau country is as varied in its soils as in its surface configuration. The acreage of improved land is constantly increasing and the same may be

said as to the number of farms in Arizona. The total farm acreage, however, has decreased, and of the entire land area less than 2 per cent is in farms, and the proportion in no county reaches 10 per cent. Irrigation is necessary to the growth of crops in the low valleys, but on the higher plains some crops are grown without it. The total acreage included in projects completed or under way is 218,600 acres. The Federal Reclamation projects include, among others, those of the Salt River and the Yuma project, the latter being partly in California. Dry-farm experiments are being carried on near Prescott and Snowflake and in Sulphur Springs Valley. The leading crops of Arizona in the order of their importance, as judged by value, are hay and forage, barley, wheat, corn, alfalfa seed, oats, and potatoes. Garden vegetables and orchard fruits, grapes, oranges, and other fruits are grown. Acclimatized Egyptian cotton is suc-cessfully grown at Yuma. The live stock raised on farms and ranches ranks in order of value as follows: cattle, horses, sheep, mules, and swine. Tunis sheep have been introduced, and ostrich farming is successfully carried on.

Forests. On the mountains, above an altitude of 7,000 ft. and below 11,500 ft., and on the plateau country, are large forest areas where the principal growths are oaks, cedars, yellow pine, juniper, fir, and spruce. The Coconino forest with an area of about 6,000 sq. m. is one of the largest unbroken pine forests in the United States. Cottonwood, sycamore, ash, willow, walnut, and cherry trees are found in the canyons. About 86 per cent of the wooded lands are government reservations, and steps have been taken to safeguard the forest areas in the southeastern part of the state, from which there are few permanent streams flowing to the arid valleys.

Minerals. The leading industry of Arizona is mining. The state ranks first among the copper-yielding states of the Union, and gold, silver, lead, and zinc are among the metals produced. The quarries yield granite, sandstone, limestone, and onyx marble. Low-grade coal deposits occur in the east-central part of the state and near the junction of the Gila and San Pedro Rivers. Tungsten, asbestos, and quick-silver are worked to a limited extent. Some fine specimens of chrysolite, turquoise, and garnet have been found.

Manufactures. By far the most important of the manufacturing industries is that of copper smelting and refining which forms about 82 per cent of the total manufacturing output of the state. Lumber and timber working, flourand grist-milling, car construction and repairing, are other industries. The blankets of the Navajo and Moqui Indians, and the baskets of the Pima Indians are well known.

Education. The general conduct of public schools is under the supervision of a state board of education. A permanent school fund is derived from the sale of public lands, from es-

cheated estates, and from unclaimed shares and dividends of corporations incorporated in the state. The state gives aid to vocational education in high schools and in normal schools; it provides for free text books in public schools and for county scholarships in the state university. School attendance is compulsory for twelve weeks (six consecutive) annually for children from eight to fourteen years of age. Instruction is free for children from six to twentyone years of age. The state maintains two public normal schools, at Tampa and Flagstaff. The State University of Arizona is at Tucson, as is also the State Agricultural School. There are a number of Indian schools, the largest of which are maintained by the national government.

Government. Arizona is governed under a constitution adopted in 1911 and its amendments. Suffrage is the right of both male and female citizens of the United States who have attained twenty-one years of age, and have been resident in the state for one year. Excluded from the privilege are persons under guardianship, the insane, and those convicted of treason or felony (unless restored to civil rights). EXECUTIVE. The executive department consists of a governor, secretary of state, auditor and treasurer, attorney-general, and superintendent of public instruction. There is no lieutenant-governor. All executive officials are elected for two years, and they must at the time of election, be at least twenty-five years of age, and must have been citizens of the United States for ten years and of Arizona for five years preceding the election. No person is eligible to succeed himself in the office of state treasurer for two years after the expiration of the term for which he shall have been elected. Legis-LATIVE. The legislature consists of a Senate and House of Representatives. All members of these bodies must be at least twenty-five years of age and residents of Arizona for three years, and of the county from which elected for one year next preceding election. The legislature meets biennially (odd number years) at Phoenix, its sessions being limited to 60 days. JUDICIARY. Judicial power is vested in a supreme court, superior courts, justices of the peace courts, and such special courts inferior to the superior court as may be provided by law. The supreme court consists of three judges, elected by the people for a term of six years; the one receiving the highest number of votes is chief justice. LOCAL GOVERNMENT. Any city with a population of over 3,500 has the power to frame a charter for its own government. governments are forbidden to grant, extend, or renew a franchise without the approval of a majority of the qualified electors residing within their corporate limits, who shall vote thereon at a general or special election; and no franchise must be granted, extended, or renewed for a

longer time than twenty-five years.

History. Pueblo ruins and aboriginal remains are found in the river basins of Arizona, notably in those of the Colorado, Little Colorado, and Gila. Arizona was explored by Spaniards from Mexico in the 16th Century. Jesuit and Franciscan missionaries labored among the Indians from the days of the early explorers until about 1820, when they finally abandoned the country because of Indian wars, and there was little attempt on the part of the Spaniards to settle the country for the same reason. American traders and explorers began to visit Arizona about 1820. As a result of the Mexican War, New Mexico, which then included all of Arizona north of the Gila, was ceded to the United States. The strip of territory known as the Gads-den Purchase was added to New Mexico in 1854. The progress of American settlement was slow and the removal of troops during the Civil War led to the outbreak of Indian hostilities and prolonged wars. In 1861 Arizona was occupied by a Texan force and joined the Confederacy. In 1862 the Texans were driven out. In 1863 Congress organized Arizona as a territory, with the meridian of 109° W. longitude as its eastern boundary. It was admitted as a sovereign state on February 14, 1912.

ARKANSAS

ARKANSAS, a West South-Central State of the Union, lies between latitudes 33° and 36° 30′ N., and longitudes 89° 40′ and 94° 40′ W. It is bounded on the N. by Missouri; on the E. by Tennessee and Mississippi, from which states it is separated by the Mississippi River; on the S. by Louisiana; and on the W. by Texas and Oklahoma. In gross area Arkansas ranks twentysixth among the states of the Union (53,335 sq. m., of which 810 sq. m. are water surface).

Relief. Arkansas has a diversified surface

which slopes upward from an elevation of less than 200 ft. in the southeast to heights of 2,000 ft. and more in the northwest. A line drawn through Little Rock from the northeast to the southwest corner of the state would divide it about equally into a southeast lowland division

and a northwest highland division. The Arkansas River, flowing across the state in a northwest-southeast direction, divides the highland and lowland divisions of the state each into two sections. Generally speaking, the eastern half of the state is a region of lowland prairies and hills; it is a part of the Gulf or Coastal Plain Province of the United States. The Mississippi and its principal tributaries are bordered by broad alluvial bottoms of low elevation and nearly level surface, above which rises the more rolling and elevated part of the Coastal Plain. In the highland division south of the Arkansas, are the Ouachita Mountains, which enter the state from Oklahoma and extend nearly to Little Rock. These run in long low ridges havin, an east and west trend, with wide flat valleys intervening. They rise from elevations of 500–700 ft. at their eastern end to nearly 2,900 ft. above the sea near the western boundary of the state. Magazine Mountain in Logan county (2,833 ft.) is the highest point between the Alleghanies and the Rockies. North of the Arkansas are the Boston Mountains, continuations of the Ozark belt of Missouri and structurally distinct from the Ouachita Mountains. They lie in short high ranges with fertile intervening valleys and attain elevations of 2,250 ft. On the north these mountains fall by a bold escarpment to a somewhat lower region in the extreme northwest. The scenery of the Boston and Ouachita Mountain Ranges is remarkably picturesque.

Drainage. Arkansas lies wholly in the drainage basin of the lower Mississippi, and is covered by a wonderful network of rivers. It is bisected from west to east by the Arkansas, along whose valley lie the oldest and most important settlements of the state. The Red, the Ouachita, the White, and the St. Francis Rivers are among the other large streams which, with numerous smaller ones, make up the drainage system. There are several swampy areas and bayous in

the eastern part.

Climate. The climate of the greater part of the state is pleasant and salubrious. The marshy and flat alluvial sections are hot and trying to those who are not acclimated. The mean temperatures are normally about 41°, 61°, 79°, and 62° F. for winter, spring, summer and autumn, respectively. The mean annual temperature for the entire state ranges from 59° to 63° F. The normal annual rainfall ranges from 35 to 65 in., according to locality, and is sufficient for growing all crops except rice, for the cultivation of which irrigation is necessary. There is little snow and severe winter cold is unknown.

Agriculture. The soils of the alluvial bottoms are chiefly heavy silty loams and clays of wonderful richness. Some sandy loams exist along the front lands and bayous. In the southern portions of the state the soils are sandy and sandy loam. Topography, soils, and climate are the factors which make Arkansas an agricultural state of constantly increasing importance. The leading crops (ranked in the order of their importance as judged by value) are cotton, corn, hay and forage, oats, potatoes, sweet potatoes and yams, rough rice, and wheat. In acreage the combined cereals exceed cotton, while their value is only about three-fifths as great. Corn represents nearly 90 per cent of the total acreage and value of the cereals. The live-stock industries are of great importance.

Forests. Large parts of the state are finely timbered with valuable trees; pines and oaks of several varieties, hickory, ash, elm, sycamore, poplar, red ash, beech, walnut, pecan, and locust trees are among the 129 species found in Arkansas. The hard wood forests are hardly surpassed in the variety and value of their woods.



There are two Federal forest reserves containing

about 5,000 sq. miles.

Minerals. The mineral wealth of Arkansas is great and varied, and is only partially developed. Coal, both semi-anthracite and bituminous, is extensively worked in counties along both sides of the Arkansas River, and is the most valuable mineral of the state. Zinc and lead are found in the Ozark region; iron, manganese, and copper are known to exist at various points; in Sebastian and Scott counties there is a little natural gas. The state is the foremost producer in the country of beauxite, and of oilstones (novaculites), which are among the best whetstones in the world. Grindstones, marble, millstone, slate, granite, kaolin, phosphate rock, and diamonds are among the mineral products. Mineral and thermal springs abound; the famous Hot Springs in Garland county, with a temperature of 158°, are renowned for their efficacy in a wide range of diseases.

Manufactures. Although Arkansas is comparatively unimportant as a manufacturing state, its manufactures have shown marked increase in recent years. Only 2.9 per cent of the population are engaged in manufacturing industries, which include among others lumber and timber products, cottonseed-oil and cake, flour-mill and grist-mill products, cars and general shop construction, and printing and publishing.

Education. A compulsory education law requires attendance at school for one-half of

the school year of children between eight and sixteen (unless the family is destitute), and of all children between sixteen and twenty if they are not regularly employed, but this applies to only half the counties of the state. The state has a complete public school system, under which separate schools are provided for white and black children. The schools are administered by a superintendent of public instruction and a state board of education. Four district agricultural schools, at Jonesboro, Russellville, Magnolia, and Monticello, were opened in 1912. At the head of the public school system is the University of Arkansas at Favetteville. A normal school at Pine Bluff provides for colored students, who enjoy the same opportunities for work and are granted the same degrees as students at Fayetteville. Among the large de-nominational schools of the state are: Philander Smith College (Methodist Episcopal), at Little Rock; Ouachita College (Baptist), at Arkadelphia; Hendrix College (Methodist Episcopal, South), at Conway; and Arkansas College (Presbyterian), at Batesville.

Government. Arkansas is governed under a constitution adopted in 1874 and its subsequent amendments. The qualifications for suffrage include one year's residence in the state, six months in the county, and one month in the voting district next preceding election. Idiots, insane persons, convicts, Indians not taxed, minors, and women are disqualified. Aliens who have declared their intention to become citizens of the United States vote on the same terms as citizens of the United States. The constitution prescribes that no law shall be enacted whereby the right to vote at any election shall be made to depend upon any previous registration of the electors named. "An amendment of 1893 requires the exhibition of a poll-tax receipt by every voter (except those who make satisfactory proof that they have attained the age of twentyone years since the time of assessing taxes next preceding the election)." EXECUTIVE. The chief executive officer of the state, the governor, is elected for two years. He has the power to pardon criminals, and to veto acts of the legislature. There is no lieutenant-governor. LEGIS-LATIVE. The legislative branch of the government consists of a Senate and a House of Representatives. It meets biennially (odd number years), at Little Rock. The sessions are limited to sixty days, unless extended by a two-thirds vote of each house. Special sessions may be called by the governor. Senators and representatives must be citizens, the former at least twenty-five years of age and the latter at least twenty-one, and both must have resided in the state for two years and in the county or district for one year preceding election. Senators hold office for four years, one-half the number retiring every two years; representatives are elected for two years. A majority of the members elected to each of the two houses suffices to propose a constitutional amendment, which the people may then accept by a mere majority of all votes cast at an election for the legislature, but no more than three amendments can be acted upon at the same time. The legislature can override the veto of the governor by a majority in each house. JUDICIARY. The state judiciary consists of a supreme court and circuit courts. The five judges of the supreme court are elected for a term of eight years, the judges of the circuit courts are elected for four years. Local Government. The unit of local government is the county, the county officers being county judge, district-attorney, sheriff, coroner, clerk of court, county assessor, county treasurer and county surveyor, and superintendent of schools. Municipal corporations are provided for under a general state law.

History. The first settlement of Europeans in what is now Arkansas was made by the French (1686) at Arkansas Post, important as a trading post in the earlier days of the American occupation, and the first territorial capital, 1819-'20. In 1720 a grant on the Arkansas was made to John Law; in 1762 the territory passed to Spain; in 1780 it reverted to France, and formed a part of the French colony of Louisiana which was purchased by the United States in 1803. It was organized as a territory in 1819, became a state in 1836, and seceded in 1861.

CALIFORNIA

CALIFORNIA, one of the Pacific Coast States of the Union, lies between latitudes 32° 28′ and 42° N., and longitudes 114° 10′ and 124° W. It is bounded on the N. by Oregon; on the E. by Nevada and Arizona; on the S. by Lower California; and on the W. by the Pacific Ocean. It ranks second in size among the states, with a gross area of 158,297 sq. m., of which 2,645 sq. m. represent water surface.

Coast. Notwithstanding the bold and rugged coast-line (more than 1,000 m. in length) with which California faces the Pacific, she possesses comparatively few harbors, but among the limited number is one of the best in the world, San Francisco Bay. This great natural harbor,

50 m. long, 3 to 12 m. wide, with an area of 420 sq. m., is situated nearly midway between the northern and southern boundaries of the state. It is deep and safe as well as commodious, and opens out to the Pacific through the "Golden Gate," a channel three miles in length, a mile wide at its narrowest point, with a maximum depth of 360 feet. The northern part of this magnificent landlocked harbor is called San Pablo Bay, which communicates through the Straits of Carquinez with Suisun Bay, through which passes the drainage of the Great Valley on its way to the sea. Ice and snow are practically unknown, and navigation, in that respect, is unhampered. San Diego Bay, far

to the south, is another beautiful natural harbor through which is carried on an important foreign as well as domestic commerce. There are a number of small coastal islands, all included in

the Santa Barbara group.

Relief. The main physiographic divisions of California may be summarized as follows: (1) two great mountain systems extending throughout the greater part of the state, in a generally northwest-southeast direction, and enclosing the Great Valley of California: (2) the rough and mountainous northern section; (3) the diversified region south of the Tehachapi Mountains, known as Southern California; and (4) the arid portions of the state lying east and southeast of the main mountain ranges. The Coast Range comprises altitudes of from 2,000-8,000 ft. above the sea. It is a complex system, made up of many ranges with their outlying spurs and foothills, whose intervening lowlands are vales of beauty and fertility. Farther east run the majestic Sierra Nevada Mountains, consisting mainly of one chain with an occasional double line of summits. Precipitous on the east, they slope gradually to the Great Valley of California on the west; hence it is that the openings of the passes which cross them are at the base of the mountains on the east, while on the west they are high on their flanks, 7,000-11,000 ft. above the sea. In the Sierra Nevada Range are found twelve peaks each with an elevation of above 14,000 ft., among the number being Mount Whitney (14,898 ft.), the highest summit of the national domain outside of Alaska. Mt. Lassen, or Lassen's Peak (10,437 ft.), in the Sierra Nevada Range, became violently active in the summer of 1914, and California now boasts, among her many unique features, the only ac-tive volcano within the continental area of the United States. The range is cut in many places, particularly in its northern stretches, by precipitous canyons and gorges, and numerous wonderful glacial valleys are ensconced amid its lofty peaks. Among the latter, the Yosemite is the most famous, surpassing all the others in the number and height of its vertical falls and in the massive grandeur of its rocks. It lies on the western slope of the Sierras, about 150 m. southeast of San Francisco, and is a part of Yosemite National Park. It is about 7 m. long and from $\frac{1}{2}$ to over 1 m. broad, its level and park-like floor being shut in by sheer granite walls 3,000-6,000 ft. high. Among the best known of the other valleys, which are visited every summer by tourists, hunters, and scientists, are the Hetch Hetchy Valley (a wonderful counterpart of Yosemite) in the Tuolumne Canyon; the Tehipitee Valley, in the Middle Fork Canyon of King's River; and the King's River Yosemite, in the South Fork Canyon. All these valleys are similar in their trends, forms, sculpture, and vegetation. North of 40° the Coast and Sierra Nevada Ranges unite and are continued northward in the Cascade Range, which runs through Oregon and Washington into British



Columbia. Throughout the state, and especially in its northern half, are found traces of volcanic action, and in the northern mountains are numerous craters and ash cones, the most remarkable being Mount Shasta, which rises over 10,000 ft. above the surrounding country and over 14,300 ft. above sea-level. The northern part of the state is a rough country whose western half is heavily timbered and extremely wet, while the eastern half consists of barren volcanic plains lying between low but steep mountain ranges. Towards its southern extremity, be-tween 35° and 36° N. latitude, the Sierra Nevada Range is joined to the Coast Range by a transyerse range (the Tehachapi Mountains), which to some extent separates Southern California from the rest of the state. The main mountain ranges above described form the setting, or rim; of the Great Valley of California (more than 400 m. in length, and from 40-60 m. in breadth), imperial in extent and renowned for the beauty of its scenery, the fertility of its soils, and the charm and salubrity of its climate. To the east of San Francisco Bay occurs the only considerable break in the mountain walls which guard this favored region, and through this depression the entire drainage of that part of the state finds its way to the ocean. Southern California is a region of coastal plain, of mountain ranges, and of desert plains beyond the mountains. The coastal plains are garden spots where grow the orange, the lemon, and countless other fruits; where wealth abounds; and where life is made easy by a mild and equable climate. The southern mountain ranges, having the same northwest-southeast trend as the Coast Range, separate the fertile coast lands from the arid

lands to the eastward. They have a general elevation of from 5,000–7,000 ft., with a number of peaks rising much higher (San Bernardino, 11,600 ft.; San Jacinto, nearly 11,000 ft.; and San Antonio, over 10,000 ft.). The passes crossing these southern ranges are comparatively low-about 2,500-2,800 ft.-and over these the railways cross to the coast. The barren lands of California lie east and south of the juncture of the Sierra and Coast ranges. This section, having an area of nearly 50,000 sq. m., is largely a desert. The Mohave Desert, including parts of Kern, Los Angeles, San Bernardino, San Diego, Imperial, and Riverside Counties, belongs to the "Great Basin." A narrow strip along the lower Colorado River is in the "Open Basin" region, and here there is no drainage to the sea, save in small areas in which intermittent streams reach the Colorado River. About the Salton Sea the country is depressed from 250–280 ft. below the level of the sea. Death Valley, to the east of the Sierra, 50 m. long, and from 5-10 m. wide at the base of the encircling mountains, is

276 ft. below sea level. Drainage. The inland waters of California ultimately drain, through devious routes, to the Pacific Ocean. The drainage of the Great Valley is brought from the north by the Sacramento, and from the south by the San Joaquin, which great rivers unite near the head of Suisun Bay. The Sacramento is the largest river of the state, its head stream being the Pitt River which drains Goose Lake. The San Joaquin rises in the Sierra Nevada, near the northeastern ex-tremity of Fresno county, follows a very crooked course, first southwestward and then northnorthwestward through the valley, till it joins the Sacramento. Its chief affluents are the Tuolumne, and Stanislaus Fresno, Merced, Rivers. The Klamath River, draining the northwestern corner of the state, comes from Oregon through Klamath Lake, and has a course of about 275 m. before it enters the sea. Most of the rivers of the Pacific slope are short and have precipitous courses. The rivers of the arid region of California are intermittent streams (dry during part of the year) whose waters never reach the sea but are either lost by evaporation in the desert, or disappear beneath the surface. Thousands of glacial lakes and ponds, some fresh, others alkaline, are found among the Sierras. Of these lakes the most beautiful of all is Lake Tahoe, lying over 6,200 ft. above the sea, and forming part of the boundary with Nevada. It is 22 m. long, 10 m. wide, and about 1,500 ft. deep; and is set amid mountains which rise 4,000-5,000 ft. above its surface. Owen's Lake, a few miles east of Mount Whitney, is about 18 m. long and 10 m. wide, and is set in a region of sublime mountain scenery. Owen's River enters it on the north, but it has no visible outlet. Clear Lake, in the Coast Range, is another picturesque sheet of water much fre-

quented by tourists and sportsmen.

Climate. Distance from the Pacific, situa-

tion with reference to the mountain ranges, altitude, and regular diurnal and seasonal winds are the weather factors in this remarkable state, where there are in reality but two seasons—a wet one and a dry one. The wonderful variety and wonderful contrasts which are presented by the physiographical features of California are not more startling than are its variations of temperature and rainfall. Summer in California is the dry season, when everything be-comes parched and dusty because of the scanty rainfall and the intense heat. The heat, however, except on the coast, is greatly ameliorated by the dryness of the air and the consequent rapidity of evaporation. The climate of the section west of the Coast Range, especially northward from San Francisco, is damp, foggy, and quite cool even in summer, and the nights are cold. Back of the Coast Range, in the Great Valley, the climate is delightful during the greater part of the year, and roses are there as plentiful at Easter as they are in June in New England. The Colorado Desert, like the lower Gila Valley of Arizona, is the hottest part of the United States, where the yearly extreme is frequently from 124° to 130° F. in the shade. In Death Valley the maximum temperature may for days in succession be as high as 120° F. The winter climate of the high mountains, especially in the north, is severe. About Lake Tahoe, at an elevation of 6,200 ft., temperatures of 25° to 30° below zero are not unusual. But in lower altitudes throughout the entire state the winters are remarkably mild. In the northern half of the Sierras and in the northwestern part of the state, the normal rainfall is from 60 to 75 in., and in exceptional seasons it is much greater. In all the rest of the state, save Invo. Kern, and San Bernardino Counties, the rainfall is from 10 to 20 inches. The southeastern counties are the driest part of the United States, and there the normal annual precipitation is from 1.5 to 2.5 inches. California, like the rest of the Pacific Coast, is liable to earthquakes. They occur in all seasons, scores of slight tremors being recorded every year by the Weather Bureau.

Agriculture. The soils of the coastal plains, from San Francisco to San Diego, range from heavy clay-like adobe soils to sandy and gravelly loams. The soils of the Great Valley include the heavy clays and clay loams along the rivers, and the loams, adobes, sandy and gravelly soils of the foothills. The soils of that portion of the state east of the Sierra Nevadas in the Great Basin are gravelly and sandy and as yet undeveloped for agricultural purposes. In the extreme northern part of the state the region east of the Sierras has soils which are largely composed of lavas and volcanic ash from extinct volcanic craters. The soils of the arid southern part of the state are clays, sands, and sandy loams. California has the greatest area of irrigated land of any state in the Union, the water used being obtained, either from lakes and

rivers (as is the case in the Great Valley), or from artesian wells (as in the southern part of the state). The sources of wealth in California, taken in historical sequence, have been of three classes: pastoral (hides, tallow, wool); mineral (gold, silver, petroleum, etc.); agricultural (wheat and other cereals, wine, deciduous orchard fruits, citrous fruits, tropical and semi-tropical fruits, nuts, clives, hops, etc.). Farms have grown smaller, irrigation has been greatly extended, and scientific cultivation established. lowing items taken from reports of the United States Census Bureau give an idea of the changes as to farm acreage during the past sixty-five years. In 1850 the total farm area of the state, embracing 3,893,985 acres, was divided into 872 farms with an average size of 4,466 Large farms of 50,000 acres were not unusual, but the small farm of 15 or 20 acres was unknown. In 1910, the total farm area was 27,981,444 acres; the number of farms had increased to 88,197, while the average size of farms had fallen to 316.7 acres. Thus it is shown that as the area of cultivated land has increased the average size of farms has decreased. Large farms of 1,000 or more acres are still to be found in the state but the small farm has come into its own. Stock ranches and allied industries. the chief sources of wealth in the days of the Mexican regime, were followed by the mining camps of early American rule when Gold was King. Then there came a time when the mining camps had to yield first place to the wheat-fields of the Great Valley. That was in the years 1880-Since 1884 the production of wheat has steadily decreased, and other crops are now the ruling factors of agricultural industry. gation, intensive cultivation, growing knowledge of the state's wonderful soils and climates, have brought about the change in products and explain the establishment of the small farm. wheat-fields and stock-ranches have not gone they are still important—but horticulture is now the leading agricultural industry, and in this field California has no rival among the other states of the Union. Charles Dudley Warner called California "Our Italy," and to-day, not only the fruits and vines of Italy, but those of many other lands are found to flourish in this favored commonwealth. The orchards of the north yield apples, peaches, pears, apricots, cherries, plums, and almonds; the Great Valley produces not only grapes, prunes, and olives, but a great variety of other fruits and of nuts; Southern California excels in oranges, lemons, and other tropical and semi-tropical fruits. The state produces more than a fifth of the fruit grown in the United States, and its supremacy is established in the growth of oranges, lemons, citrons, figs, prunes, plums, olives, grapes, raisins, nectarines, pomegranates, almonds, and English walnuts.

Forests. The forests of California are, with those of Oregon and Washington, probably the finest in the world. The variety of trees is not

great, but some of the trees are peculiar to California. Coniferous forests make up nine-tenths of the wooded areas and include nearly fifty species, among which are the redwood and the sequoia, found only in this section of the United States. The redwood grows on the western slope of the Coast Range from southern Oregon nearly to San Francisco, with one grove, now a state reserve, farther south at Santa Cruz. The sequoia is found only in the Sierra Nevada, occurring in scattered groves among other species. Its habitat, in latitude 36°-39° N. is at an altitude of 5,000-8,000 feet. The government holds the groves near Visalia as a national park. The Calaveras Grove, near Stockton, is the one most accessible from San Francisco. A national forest reserve includes the big tree groves of Calaveras and Toulumne Counties, but nearly all of the merchantable timber is owned by private in-dividuals. The elm, the hickory, the beech, the chestnut, and other trees both useful and ornamental have been introduced from the eastern states, and from other parts of the world. Oaks are abundant, especially in the Great Valley. There are still some 20,000,000 acres of commercial timber, or forest which may be cut for lumber. In addition to the commercial timber there are several million acres of woodland of non-commercial timber useful for fuel and domestic purposes and for protecting the watersheds. Large areas of the forests are now included in the national reserves and regular and scientific supervision and management are conducted by the federal forest service.

Minerals. More than forty minerals of commercial value are found in California, but the list of those which are worked to any great extent is comparatively small, including gold, silver, copper, lead, zinc, borax, quicksilver, coal, petroleum, clay, granite, limestone, and salt. Since 1848 the mines of California have produced more than \$1,500,000,000 worth of gold. The annual output is still nearly \$20,000,000, and shows a tendency to increase. Of other metals, copper is next in value to gold. The most valuable of the mineral products of California at the present time is petroleum. Its output is greater than that of any other state in the Union, and its effect upon the economic development bids fair to exceed that of any other one factor in the history of the state. Its use for power purposes is transforming the state from a community devoted almost exclusively to agriculture and mining to one where manufacturing may take the leading place in industrial life. At present its value in the industrial development of the coast and mountain states can hardly be over-

Manufactures. California aspires to become a great manufacturing state and to relieve the manufacturing communities of the East and Middle West of their present markets west of the Rocky Mountains. Important factors in the realization of this desire will be the utilization of her oil products and the development of

long-distance electric-power transmission. At the present time the chief manufactured products of California (in the order of their value) are: lumber and timber, cement, canned and preserved goods (fruits, vegetables, and fish), refined oils, flour, and copper and tin wares.

Education. A compulsory education law of 1911 sets the age of school attendance from eight to fifteen years, but there are many exceptions. In November, 1912, the people approved an amendment to the constitution, giving free textbooks to pupils in both day and evening schools. California has a complete public school system which includes elementary, grade, and high schools; normal schools at Chico, Los Angeles, San Diego, San Francisco, San Jose, and Fresno; and polytechnic and other special schools. The laws provide that one high school in every firstclass city shall teach French, Italian, Spanish, and German, and such a school is to be styled a cosmopolitan school: Provision is made for the education of prisoners confined within the prisons of the state, and several hundred students are enrolled in correspondence and other departments. At the head of the state's educational system is the University of California at Berkeley—one of the great universities of the world, comprising many colleges and the Lick Astronomical Department. Among the private institutions of the state are the Leland Stanford, Jr. University, at Palo Alto—one of the richest educational institutions in America; the University of Southern California at Los Angeles; and other non-sectarian and denominational schools.

Government. California is governed under a constitution which became operative in 1880, and its amendments. Every male or female citizen of the United States (native-born, or naturalized ninety days prior to election), who is able to read the constitution in English and write his name, and who has resided in the state for one year, the county for ninety days, and in the precinct for thirty days next preceding election, is entitled to the suffrage. from the suffrage are natives of China, idiots, insane persons, embezzlers of public moneys, and persons convicted of infamous crime. EXECUTIVE. The executive officers of the state are the governor, lieutenant-governor, secretary of state, treasurer, comptroller, adjutant-general, attorney-general, superintendent of education, commissioner of insurance, and commissioner of agriculture. The governor is chosen for a term of four years, and is assisted in conducting the affairs of the state by numerous state boards and commissions, of which the most important are the Board of Education, the Board of Regents of the University, the State Board of Prison Directors, the State Board of Equalization, the

Railroad Commission, the Bank Commission, the State Board of Health, the Insurance Commission, the State Engineering Department (formed in 1907), the State Board of Charities and Corrections, the State Board of Agriculture, the State Commission of Horticulture, the State Department of Forestry, and the Commission in Lunacy. LEGISLATIVE. The state legislature is composed of a Senate and an Assembly. It meets at Sacramento, biennially (odd number years) and no limit as to length of session is prescribed by law. The qualifications for eligibility to the legislature are citizenship of the state for three years and residence in the district for one year. Members of the Senate are elected for terms of four years, half the number retiring every two years; members of the Assembly are elected for two years. JUDICIARY. The judiciary includes a Supreme Court having seven judges, elected for terms of twelve years; three courts of appeal, having nine judges, elected for terms of twelve years; and fifty-eight su-perior courts with ninety-eight judges, elected for terms of six years. LOCAL GOVERNMENT. The only county officers to be elected by popular vote are the Board of Supervisors, auditor, district-attorney, and assessor. The sheriff, coroner, county clerk, county treasurer, county surveyor, and superintendent of schools are appointed by the Board of Supervisors. A law provides for the commission form of government for cities. Cities over 400,000 are in the first class, and between 250,000 and 400,000 in the first and one-half class; cities between 100,000 and 250,000 are in the second class; those between 23,000 and 100,000 are in the third class: those between 20,000 and 23,000 are in the fourth class; those between 6,000 and 20,000 are in the fifth class; and those under 6,000 are in the sixth

History. California was formerly a part of Mexico, and the Franciscan Fathers made several settlements here between 1769 and 1776. In 1846, during the war between the United States and Mexico, it was occupied by the former country, and annexed by it in 1848. The gold discoveries later in 1848 caused a rush of immigrants to the territory, which in 1850 was admitted to the Union. The prosperity of the state was greatly stimulated by the opening of the Union Pacific Railway in 1869. In April 1906, a disastrous earthquake and the resultant fires destroyed a great part of San Francisco and injured many other towns. Visitors to the Panama-Pacific Exposition, held in San Francisco in 1915, found a new and more beautiful city built upon the ruins of the old town, a monument to the loyalty, intelligence, and industry of her citizens.

COLORADO

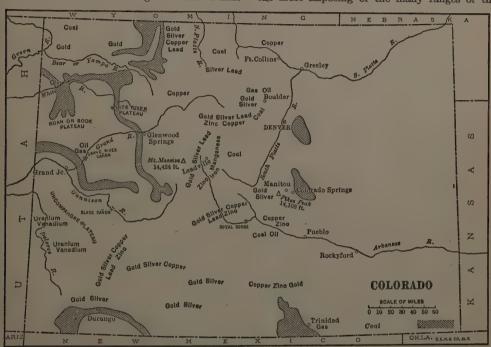
COLORADO, a Mountain State of the United States, lies between latitudes 37° and 41° N., and longitudes 102° and 109° W. It is bounded

on the N. by Wyoming and Nebraska; on the E. by Nebraska and Kansas; on the S. by Oklahoma and New Mexico; and on the W. by Utah.

Colorado has an extreme length from east to west of 390 m., and an extreme width from north to south of 270 miles. In gross area it ranks seventh among the states of the Union (103,948 sq. m., of which 290 sq. m. represent water surface).

Relief. The mean altitude of Colorado is higher than that of any other state in the Union, and fully two-thirds of its area ranges in elevation from 6,000 to 14,000 ft. above sea level. The surface presents two main physiographic divisions: (1) the Plains Region, and (2) the Mountain and Plateau Region. The Plains

The Garden of the Gods, at the foot of Pike's Peak and about 5 m. from Colorado Springs, is one of the natural wonders of the state. It is noted for its fantastic rock formations—pinnacles, needles, and spires. The Front Range is but the eastern sentry line of the Rocky Mountain belt of Colorado. Far to the west, from the northern to the southern boundary line, rise other mountain ranges, each with its outlying spurs and dominating peaks, and each with a localized name. The Saguache or Sawatch Mountains, near the central part, are considered the most imposing of the many ranges of the



Region occupies the eastern third of the state and marks the western limit of the Great Plains Region of the United States. The surface rises from 3,500 to 4,000 ft. above sea level along the eastern boundary to about 6,000 ft. at the base of the first range of mountains. This part of Colorado is a region of rich and unbroken plains through which eastward flowing rivers have cut deep narrow valleys. In about 105° W. longitude the Plains Region is met by the most eastern of the Rocky Mountain ranges, which is generally known as the Front Range, though local names are given to several of its sections. This range, rising abruptly from the plains, runs almost due north and south, but is slightly deflected to the westward in the northern part of the state. Its highest summits are Pike's Peak (14,108 ft.), west of Colorado Springs, and Long's Peak (14,271 ft.), about 50 m. northwest of Denver.

Between the northern and southern exstate. tremities of this range are nine peaks of over 14,000 ft. elevation, among them being Elbert Peak (14,420 ft.) and Mountain Massive (14,424 ft.), the highest peak in the state. The Sangre de Cristo Range, farther south, one of the most beautiful chains in the entire Rocky Mountain system, contains Blanca Peak (14,390 ft.), Old Baldy (14,200 ft.), and many others of nearly as great elevation. Among the remarkable summits of Elk Range are White Rock Mountain (13,550 ft.), Snow Mass (13,970 ft., Hayden), and Castle Peak (14,250 ft.). Other noteworthy ranges are Medicine Bow and Park Ranges in the north; the Culebra Range of the extreme south; the White River Mountains in the west; and the San Juan and other ranges in the southwest. Altogether there are in Colorado nearly 200 summits exceeding 12,000 ft. in altitude, more than

one hundred above 13,000 ft., and thirty-eight above 14,000 feet. Much of the magnificent scenerv of Colorado is due to glacial action, of which evidence is left in the glacial lakes, the valley moraines, the sharpened peaks and ridges, the countless cascades, and valley troughs found in nearly all of the ranges. More than a dozen of the passes through the mountain ranges of Colorado lie above 10,000 feet. Among the most famous are the Argentine (13,000 ft.) in the Front Range near Grav's Peak; the Rio Grande (12,400 ft.), east of Silverton; the Pearl Pass (12, 715 ft.), in the Elk Range between Gunnison and Pitkin counties; and Clear Creek Canyon, where the railway track coils six times about itself above Georgetown at an altitude of nearly 10,000 ft. above sea level. The central mountain chains enclose a series of remarkable valleys which are known as the "natural parks" of Colorado. Lying at great altitudes amidst magnificent mountain scenery, these valleys, which are park-like in their main characteristics, are bound to play an important part in the future industrial development of the state. They have fertile soils and forest areas, are dotted here and there with small lakes, and have a mild climate. The parks are generally small, but some are larger than entire states in other parts of the Union. The best known of these parks are, from north to south, North, Middle, South, and San Luis. The last named is the largest of the chain and extends across the southern boundary of the state into New Mexico. The western quarter of the state is a region of lofty plateaus, a continuation of the great plateaus of Utah. Parts of this lofty region are known as the Uncompahgre Plateau, the Roan or Book Plateau, and the White River Plateau.

Drainage. The state is drained westward and southwestward to the Gulf of California through the rivers tributary to the Colorado; southward to the Gulf of Mexico through the Rio Grande and its tributaries; and eastward through the rivers flowing to the Missouri and Mississippi. The main tributaries of the Colorado are the Green, the White, and the Grand Rivers. Among the rivers flowing east, are the South Platte and the Arkansas, both of which rise in South Park; and the North Platte, which has its origin in North Park. Among numerous other mountain streams, the systems of the Dolores, the White, and the Yampa, all in the west, are of primary interest. Many of the rivers traverse the mountains through canyons which furnish some of the most impressive scenery of the state, the most famous being the "Royal Gorge" or Canyon of the Arkansas, 8 m. above Canyon City, whose granite walls rise 2,600 ft. above the river; the Canyon of the Grand River; the Toltec Gorge, in New Mexico but close to the Colorado boundary; and the Black Canyon of the Gunnison and

Cimarron.

Climate. The dry, pure air and regular climate of Colorado have made the state the refuge of invalids suffering from diseases of the respira-

Malarial diseases are almost tory system. Cold prevails during the winter months in the mountains, and hot weather in the daytime is common in summer. But the dry atmosphere makes the cold in winter and warm weather in summer time much easier to Sunstroke is unknown. The mean annual temperature for the state is about 46° F. The southeastern portion is the warmest part of the state, while the north-central region is the coldest. The great elevation of the state gives it an ideal summer climate, and however hot the summer day the night is always cool. Very little snow falls in winter, except upon the mountains, and cattle feed upon the self-cured and unharvested grasses in the valleys and foothills throughout the cold season. The normal annual rainfall for the entire state is from 15 to 17 in., with local variations of 15 to 25 inches.

Agriculture. The soils of the Great Plains region are composed chiefly of the detritus of the mountain areas carried down and spread over the plains by long-continued stream action.

The valleys are bordered by silty and sandy alluvial soils at the lower levels, and by sandy and gravelly loam bench lands at higher altitudes. The soils of the parks and smaller valleys are formed from alluvial or lacustrine deposits. Wherever water is available irrigation has been introduced, the largest irrigated area in the state being in the valleys of the South Platte and Arkansas Rivers, and extending from the mountains to the eastern boundary of the state. The total acreage included in irrigation projects, completed or under way, is 5,917,457 acres. About 20.4 per cent of the area of Colorado is included in farms, but only 6.5 per cent is classed as improved land. One of the striking characteristics of agricultural conditions in Colorado is the presence of great areas of semi-arid land which has thus far been utilized, if at all, for grazing purposes. Upon this land are many very large farms, or ranches, frequently exceeding 10,000 acres in extent. But, aside from the farms used for grazing purposes, the present tendency is to smaller farms and scientific cul-tivation. The leading crops of the state (in the order of their importance as judged by value) are: sugar-beets, hay and forage, wheat, oats, potatoes, corn and barley.

Forests. The forests of Colorado were de-

Forests. The forests of Colorado were depleted in early days by reckless consumption and by forest fires, but in recent years reforestation has been the rule under the federal forest reserve. The timber, which is nowhere large or dense, includes the yellow and lodge-pole pines, red fir, hemlock, cedar, Englemann spruce, the cottonwood and the aspen. The federal forest reserves include about 25,000 sq. m., and cover altitudes of 7,000 to 14,000 feet.

Minerals. Colorado first attracted settlers because of its mineral wealth. It has great mining and smelting industries, coal and the ores of the precious metals being extensively worked. It is one of the greatest gold and silver

producing areas in the United States. Teller County, with the Cripple Creek district, is the principal gold producing area, and Lake County (Leadville) the principal silver producing area. Besides these the state has valuable deposits of copper, zinc, lead, and petroleum. In Boulder and Fremont counties are natural gas wells. Other mineral products of commercial value are clay, stone, sand and gravel, tungsten, and sulphur. Minor mineral products are mica, fluor-spar, graphite, and grindstones. A few precious and semi-precious stones are found, and mineral springs are numerous, occurring

in various parts of the state. Manufactures. Much of the manufacturing activity of the state is dependent upon the development of its extensive mineral resources. and many manufacturing establishments owe their existence to the needs of the mining indus-Irrigation of the fertile valleys of the Platte and Arkansas Rivers and other streams has made the beet-sugar production of Colorado greater than that of any other state. The canning industry is also the outgrowth of irrigation. Coal and timber as manufacturing material are abundant, and generally accessible. The fact that Colorado is a natural grazing country accounts for the development of such industries as slaughtering and meat-packing, the manufacture of butter, cheese, and condensed milk, the rendering of grease and tallow, and wool scouring. The most important industries (arranged in the order of value of products) are: slaughtering and meat-packing, the manufacture of flour and grist-mill products, and of foundry and machine-shop products.

Education. The public schools of Colorado are under the general supervision of the superintendent of public instruction. Besides the public, elementary, and high schools, the state maintains the University of Colorado at Boulder, the School of Mines at Golden, the Agricultural College at Fort Collins, the State Teachers College at Greeley, and industrial schools for girls and boys near Morrison and Golden, respectively. All are supported by special taxes and appropriations—the agricultural college receiving also some aid from the Federal government. The United States maintains an Indian school at Grand Junction. Among the private institutions of the state are Colorado College (non-sectarian), at Colorado Springs, and the University of Denver (Methodist Episcopal), at

Denver.
Government. Colorado is governed under

its first constitution, adopted in 1876, and its amendments. The right to vote is given to all

citizens, male or female, native or naturalized, who are duly registered, and have lived in the state for one year, in the county for ninety days. in the town for thirty days, and in the precinct for ten days preceding an election. Excluded from the suffrage are persons confined in public prisons, those under guardianship, and insane persons. Executive. The executive officers of the state are the governor, lieutenant-governor, secretary of state, treasurer, auditor, attorneygeneral, and superintendent of public instruction. The governor is elected for a term of two years; he may veto any separate item in an appropriation bill. The state treasurer and auditor may not hold office during two consecutive terms.

Legislative. The state legislature, or General Assembly, is composed of a Senate and House of Representatives. It meets at Denver, biennially (odd number years), and its sessions are limited to ninety days. Members of the Senate are elected for four years, one-half retiring every two years. Members of the House of Representatives are elected for two years. Eligible to either house are all citizens of the state, male or female, who are twenty-five years of age and have been resident in the district for which they seek election for twelve months preceding the election. JUDICIARY. The state judiciary comprises a supreme court, district courts, and county courts. The supreme court is composed of seven judges elected for six years; judges of the district courts are elected for six years. Local Government. County government is of the commissioner type. Other county officials are county judge, district-attorney, sheriff, coroner, clerk, assessor, treasurer, surveyor, and superintendent of schools—all elected by the people.

History. Within Colorado there are pueblos and cave-dwellings which are survivals of the Indian period and culture of the Southwest. Coronado may have entered Colorado in 1540, and there are records of Spanish exploration in the south in the latter half of the 18th century. In 1806, it was explored for the United States government by Zebulon M. Pike, who discovered the famous peak that bears his name. From 1804 to 1854 the whole or parts of Colorado were included nominally under some half dozen territories carved successively out of the trans-Mississippi country. It was practically an un-known region when, in 1858, gold was discovered in the plains on the tributaries of the South Platte near Denver. During 1860, '61 and '62, it received a continuous stream of immigration. The territory was organized in 1861, and was

admitted as a state in 1876.

CONNECTICUT

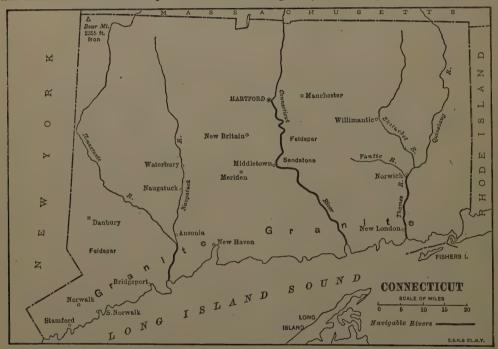
CONNECTICUT, one of the New England States and one of the original thirteen states of the Union, lies between latitudes of 40° 54′ and 42° 3′ N., and longitudes 71° 47′ and 73° 43′ W. It is bounded on the N. by Massachusetts; on

the E. by Rhode Island; on the S. by Long Island Sound; and on the W. by New York. Connecticut ranks forty-sixth in area (4,965 sq. m., of which 145 sq. m. is water surface) among the states of the union.

Coast. The shore line of Connecticut extends from the mouth of the Byram River, at the southwestern angle of the state, to the mouth of the Pawcatuck River, which for some distance separates Connecticut from Rhode Island. The coast has a number of bays which form good harbors, the principal ones being Bridgeport, New Haven, New London, and Stonington, all ports of entry, while Stamford is a sub-port of entry.

Relief. The greater part of the surface of Connecticut is that of a gently rolling upland, interrupted by numberless small deep valleys and divided near the middle by the lowland of which, near the New York state line, attain mountainous altitudes. These hills are a continuation of the Berkshire and Taconic ranges of Massachusetts, and the highest altitudes are those of Bear Mountain (2,355 ft.), Gridley Mountain (2,200 ft.), Mount Riga (2,000 ft.), and Lion's Head (1,760 ft.), all in Salisbury; Mount Ball (1,760 ft.), in Norfolk; Canaan Mountain (1,680 ft.), in North Canaan; and Ivy Mountain (1,640 ft.), in Goshen.

Drainage. The drainage of the state is entirely into Long Island Sound, the chief streams being the Housatonic and its tributary, the Naugatuck, in the west; the Connecticut in the



the beautiful Connecticut valley. Both sections of the upland surface rise gradually from the shore of Long Island Sound on the south to a mean elevation of 1,000–1,200 ft. along the northern boundary. The Connecticut Valley rises from sea level in the south to a height of only about 100 ft. at the north. This lowland has a total area of some 600 sq. miles. The basin of the Connecticut is in general nearly level, although it is broken by mountainous ridges, such as West Rock Ridge near New Haven, and the Hanging Hills of Meriden, which constitute the southern extension of the Holyoke Range. These deeply notched ridges are finally merged into the upland heights directly to the west. The eastern highland portion of the state is less abruptly rugged than the western highland, for in the west are several isolated peaks

center; and the Thames, which is the outlet for three other rivers (the Yantic, the Shetucket, and the Quinebaug), in the east. As in Massachusetts, the Housatonic River has a most picturesque course through the state, and a few miles of tide water navigation near its mouth. Its main affluent, the Naugatuck, babbling through a narrow valley enclosed by low hills, is a charming little stream, although extensively utilized for power purposes. The Connecticut River has a fairly straight north and south course through the lowland belt until Middletown is reached, at which point it turns southeastward into one of the narrow valleys in the eastern highland section. The Connecticut is navigable as far as Hartford. The Thames is a tidal estuary which receives the waters of the Shetucket and Quine-

baug. It is navigable to Norwich. Small lakes are found in all parts of the state, many of them being set in the midst of picturesque hills and wooded country, and surrounded by summer

homes, hotels, and camps.

Climate. The climate of Connecticut is subject to sudden changes of temperature, but the extremes of heat and cold are less than in the other New England States. The mean annual temperature is 49° F., the average winter temperature being 26°, and the average summer temperature 72° F. The southwest winds, which prevail in summer, temper the heat of the coast region. The warmest weather is experienced in the central parts of the state, where 100° F. has been recorded. The prevailing winter winds are from the northwest, and records of -10° or -15° are not unusual in the northwestern section of the state. The annual precipitation varies, from 43 to 50 inches.

Agriculture. Until the middle of the nineteenth century agriculture was the principal occupation of the people of Connecticut, whose thrift and industry overcame the disadvantages of soil and climate, and won for them an independent though frugal livelihood. Then the development of manufactures, the competition of the western states in farm products, and the change in population brought about by the growth of great cities, caused a steady decline in agriculture after 1850. Within the Connecticut basin, and in the smaller valleys are found the best agricultural lands of the state, where the sandy loams and loamy soils are favorable to tobacco growing, market-gardening, and fruit growing. The upland soils are principally used for grazing and the production of grass and corn. Extensive areas are too steep in slope or too rocky for any other occupation than that of forestry or pasturage. The growing horticultural interests of the state are located chiefly upon the deeper areas of the glacial loams in the highland portions.

Minerals. Connecticut has a variety of mineral products, including iron, copper, gold, silver, tungsten, and lead. In colonial times the production of iron was an important industry in the vicinity of Salisbury. The only mineral industries now of importance are those furnished by the quarries of granite near Long Island Sound, those of sandstone at Portland, and feldspar at Branchville and South Glastonbury. Limestone, beryl, clays, and mineral springs

yield products of minor importance.

Fisheries. The chief fishing industries of the state are those of lobster and oysters, but these are not as large as formerly, and the cod, mackerel, and other fisheries are steadily de-

Manufactures. The history of the development of manufacturing industries in Connecticut begins early in the colonial period and records a steady growth both in the value of products and in the number of wage earners employed. The hand-made nails, clocks, house-

hold utensils, the products of the hand looms, the "Yankee Notions" of long ago have been superseded by the products of great modern factories; but it was in the school of home and village industries that the inventors of Connecticut received their early training. Eli Whitney, the inventor of the cotton gin; Elias B. Howe and Allen B. Wilson, inventors of the sewing machine; Charles Goodyear, inventor of the process of vulcanizing rubber; and Samuel Colt, inventor and manufacturer of the Colt fire-arms. are a few of the many names of which Connecticut is proud. While all other industries have declined or have at least been modified by the growth and competition of the new western states, manufacturing industries have increased in number and in value and form the main source of Connecticut's wealth to-day. The causes of this wonderful growth have been the many and excellent water powers of the state; the numerous and safe harbors of the coast, with water communication to east and west; the close proximity to New York City, the financial and com-mercial center of the Union; the large amount of capital available for investment, furnished by the insurance and banking companies of the state; and Connecticut's liberal Joint Stock Act of 1837, permitting small sums to be capitalized in manufactures—an act which has been copied in Great Britain and elsewhere. To enumerate the different articles turned out by the state's factories would require much space, for out of the 359 manufactured products classified by the United States census, Connecticut produces 249 or nearly seven-tenths of the number. One-fifth of the total population of the state is employed in factories and, while her rank among the manufacturing states has declined since 1849-50, the number of employees and the value of manufactured products have enormously increased. The principal manufacturing industries (in the order of their value) are: textiles, consisting of cotton goods, silk and silk goods; woolen and felt goods; hosiery and knit goods; brass and bronze products, includ-ing the manufacture of rolled brass and copper and brass wares; foundry and machine shop products, including hardware, textile and metalworking machinery, and internal-combustion engines; firearms and ammunition; silverware and plated ware; corsets, in the production of which Connecticut is the leading state; automobiles, including bodies and parts; cutlery and tools; fur-felt hats, in which industry Connecticut holds second rank; electrical machinery, apparatus, and supplies; lumber and timber products: and clocks and watches.

Education. Connecticut has been among the foremost of the states of the Union in providing for the education of her people. In the early colonial days liberal provision was made for schools and after statehood was established the work was continued and extended. Elementary instruction is free for all children between the ages of four and sixteen years, and compul-

sory for all between the ages of seven and sixteen years. The state schools include elementary, high, and normal schools; every township of more than 10,000 is required to support an evening school for those over fourteen; and text-books are provided by the townships for those unable to purchase them. The Connecticut Agricultural College at Storrs, and the Connecticut Experiment Station at New Haven, afford opportunity for scientific agricultural training. A large number of private elementary and secondary schools of the highest repute are in successful operation. Higher education is provided by Yale University, at New Haven; by Trinity College, at Hartford; by Wesleyan University, at Middletown; and by the Hart-ford Theological Seminary. The state aids in the education of imbeciles, of deaf mutes, and the blind.

Government. The present constitution of Connecticut is the one framed and adopted in 1818, with its subsequent amendments. Suffrage is the right of all male citizens of the United States, twenty-one years of age and upward, who can read the English language, have lived in the state for one year and in the town six months previous to election. Excluded from the suffrage are all who have been convicted of heinous crime, unless pardoned. Women are given school suffrage. EXECUTIVE. The executive officers are the governor, lieutenant-governor, secretary of state, comptroller and treasurer, all chosen by the electors for a term of two years; and the attorney-general, four years. The government of Connecticut is largely conducted by administrative boards such as the Board of Pardons, the State Library Committee, the Board of Mediation and Arbitration for the settlement of labor disputes, and the State Board of Charities. The Bureau of Labor Statistics has

among its duties the giving of helpful advice to immigrant laborers regarding their legal rights, and maintains free employment agencies in a number of the leading cities of the state. Legislative branch of the government—known as the General Assembly—consists of a Senate and House of Representatives. It meets at Hartford biennially (odd number years); the sessions are unrestricted as to length. Both senators and representatives are elected for a term of two years. Judiciary. The judges of the supreme court of errors and the supreme court are appointed by the General Assembly on nomination by the governor, for terms of eight years. Judges of the courts of common pleas and of the district courts are chosen in the same manner, for terms of four years. Local Govern-MENT. For local administration the state is divided into eight counties, which are sub-divided into towns, within which are cities and boroughs.

History. The first settlement by Europeans in Connecticut was made on the site of Hartford in 1633. In the same year trading and exploring parties from Massachusetts opened the way for the immigration into the Connecticut valley of Puritan colonists from Dorchester, Watertown, and New Town (now Cambridge). This colony may be said to date from the secession in 1634 of the more democratic element from Massachusetts. Its constitution of 1639 was "the first written democratic constitution on record." The royal charter of 1632, mainly a confirmation of the older one, was superseded only in 1818, when the present state constitution was framed and adopted. Prominent events in Connecticut history were the bloody war with the Pequot Indians, 1637; the governorship of Sir Edmond Andros, during a part of which (1687-'88) the colonial charter was in abeyance; and the abolition of slavery in 1818.

DELAWARE

DELAWARE, one of the South Atlantic States and one of the thirteen original states of the Union, lies between latitudes 38° 27′ and 39° 50′ N., and longitudes 75° 2′ and 75° 47′ W. It is bounded on the N. by Pennsylvania; on the E. by the Delaware River and Delaware Bay, which separate it from New Jersey, and by the Atlantic Ocean; and on the S. and W. by Maryland. Next to Rhode Island it is the smallest state in the Union, its area being 2,370 sq. m., of which 405 sq. m. represent water surface.

Relief. Delaware forms a part of the peninsula bounded on the E. by Delaware River, Delaware Bay, and the Atlantic Ocean, and on the W. by the Susquehanna River and Chesapeake Bay. It lies wholly within the Atlantic Coastal Plain region of the United States and, save for a small area in the north, is generally low and level. West of Wilmington, a ridge running in a northwesterly direction forms a watershed between the Christiana and Brandy-

wine Creeks, its highest elevation being 327 ft. above sea level. The northern portion of the state is a fertile, beautiful country, with broad pleasant valleys surrounded by low hills. South of the Christiana the surface is monotonous, a low elevation, running from northwest to southeast, forming the water-parting between the eastward and westward flowing streams. This southern section is mainly sandy, with quite extensive marshy and swampy areas.

Drainage. Delaware is drained by small and unimportant streams. Those of the northern section flow into Brandywine and Christiana Creeks, whose estuaries unite to form Wilmington Harbor. Vessels drawing 14 ft. of water can ascend the Christiana for 11 miles. The rivers of the eastern slope empty into Delaware Bay and the Atlantic Ocean; most of those of the western slope have a common outlet in the Nanticoke River of Maryland. Delaware Bay and Delaware River have a deep but not very direct channel, and the west shore is difficult

of approach. Delaware and Chesapeake Bays are connected by the Delaware and Chesapeake Canal, which is being enlarged and converted into a free ship canal, which will greatly facilitate trade between Philadelphia and Baltimore. The shore of Delaware Bay is marshy, that of the Atlantic sandy. Along the shore are some shallow lagoons, separated from the open sea by low sandy spits, the largest being Rehoboth Bay, which is connected on the south with Indian River Bay and admits vessels drawing 6 ft. of water. The principal harbors are Wilmington, New Castle, and Lewes.

Climate. The influence of the ocean and bays, between which Delaware lies, tends to a mild and temperate climate. The mean annual temperature is 55° F., ranging from 52° in the southern part to 56° in the north. There are extreme records of over 100° in the summer and -17° in the winter, but they are unusual. The annual rainfall ranges from 40 to 46 inches.

Agriculture. Delaware is distinctly an agricultural state, and the value of land is steadily increasing. There has been, however, in recent years, a decline in the number of acres cultivated, and in the average size of farms. The general character of Delaware agriculture is indicated by the fact that about one-half (51.4 per cent) of the total value of crops is represented by cereals, about one-fifth (20.1 per cent) by potatoes and other vegetables, and about one-eighth (12.9 per cent) by hay and forage. The remainder, 15.6 per cent of the total, consists of small fruits, orchard fruits, and nuts and forest products. The farms of the state are giving more and more attention to market-gardening, and especially to the raising of early spring vegetables for the great cities of the Atlantic Coast. Tomatoes and other vegetables are extensively grown for the canning establishments of the state.

Fisheries. Oyster, menhaden, and other fisheries, and oyster-growing are among the im-

portant industries.

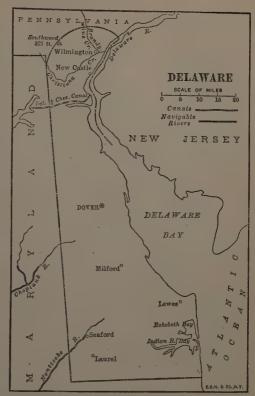
Minerals. Minerals are found only in the northern part of the state. Those of economic value are kaolin, granite, brick and tile clays.

Forests. The forests, which include an area of 700 sq. m., have been greatly reduced by constant cutting; little of the wood now standing

is of commercial value.

Manufactures. Manufactures are varied and are carried on chiefly in Wilmington and New Castle. Measured by value of products, the leading manufactures of the state are: leather, foundry and machine shop products, steam-railroad cars, paper and wood pulp, and canning and preserving of fruits, vegetables, fish and oysters.

Education. Delaware has free public schools and a compulsory school-attendance law. Separate schools are provided for white and colored children. The public school system is under a state board of education, which is appointed by the governor and serves without compensation. The state has two normal schools, agricultural



and mechanical schools, and Delaware College at Newark. A college for colored students has been established at Dover. Thirty minutes each week in the public schools must be devoted to teaching morals and humanity.

Government. Delaware is governed under a constitution adopted in 1897, with subsequent amendments. All male adults of 21 years and over, citizens of the United States, who have resided in the state one year, in the county three months, and in the district 30 days next preceding the election, have the right to vote. But no person has the right to register as a voter unless he is able to read the state constitution in English and to write his name. United States soldiers and sailors merely stationed in the state are not considered residents. EXECUTIVE. The governor is elected for a term of four years, and he is ineligible for a third term. All his appointments to offices where the salary is more than \$500 must be confirmed by the Senate, and all pardons are subject to the approval of a Board of Pardons. The governor's power of veto extends to parts and clauses of appropriation bills, but a bill may be passed over his veto by a three-fifths vote of each house of the legislature. A bill becomes a law if not returned to the legislature within ten days after its reception

by the governor, unless the legislative session shall have expired in the meantime. LEGISLA-TIVE. The legislative branch of the government or the General Assembly, meets at Dover biennially (odd number years) its session being limited to 60 days. It consists of a Senate and a House of Representatives. Representation in the legislature is according to districts, members of the lower house being chosen for two, and members of the upper house for four years. Members of both houses must at the time of their election have been citizens of the state for at least three years; members of the House of Representatives must be at least twenty-four years of age, and members of the Senate, twentyseven. Judiciary. The state judiciary is organized with six judges—a chancellor, a chief justice, and four associate justices of whom not more than three shall belong to the same party. All the judges are appointed by the governor, with the approval of the senate, for terms of twelve years. The six together constitute the supreme court of the state. A certain number of them hold courts of chancery, over and terminer, general sessions, and an orphans' court. When

a case is appealed to the supreme court, the judge from whose decision the appeal is made, may not hear the appealed case unless the appeal is made at his own instance. LOCAL GOVERNMENT. Delaware is divided into three counties and the counties are divided into hundreds which, corresponding to the townships of Pennsylvania, constitute the unit of local government.

explored by Henry Hudson in 1609. As a result of that voyage the territory was claimed by the Dutch, who planted a settlement near the present town of Lewes in 1631. The Dutch settlement was soon destroyed by the Indians, and the first permanent white settlements were made by Swedes and Finns in 1638; Dutch and Swedes contended for this region until 1655, when it passed under Dutch sway. After the transfer of New Netherland (New York) to the English, in 1664, Delaware became English also. Delaware was the first state to ratify the Federal Constitution on December 7th, 1787. Though a slave state until the civil war, Delaware took no part in the secession movement.

DISTRICT OF COLUMBIA

See map on page 52.

DISTRICT OF COLUMBIA, the federal district which contains the national capital of the United States. It lies on the eastern bank of the Potomac, at the head of tide and navigation, in latitude 38° 53′ 25″ N., and longitude 77° 00′ 34″ West. Area, 70 sq. m., of which 10 sq. m. represent water surface. It contains, besides Washington with Georgetown, several small villages. The District is administered by the Federal Government through three com-

missioners who are appointed by the President

and confirmed by the Senate.

History. It was originally formed of cessions of territory, made by Maryland in 1788 and Virginia in 1789, comprising 100 sq. miles. It was organized in 1790–1791 and the seat of government was removed thither in 1800. The Virginia portion of the district was retroceded in 1846. Territorial government was established in 1871, a provisional government succeeded in 1874, and the present form was established in 1878.

FLORIDA

FLORIDA, the most southern of the South Atlantic States, lies between latitudes 24° 30′ and 31° N., and longitudes 79° 48′ and 87° 38′ W. It is bounded on the N. by Georgia and Alabama; on the E. by the Atlantic Ocean; on the S. by Florida Strait, and the Gulf of Mexico; and on the W. by the Gulf of Mexico and Alabama. Florida ranks twenty-first in area (58,666 sq. m., of which 3,805 sq. m. are water) among the states of the Union.

Coast. The coast line of Florida is greater than that of any other state, extending nearly 500 m. on the Atlantic and about 675 m. on the Gulf of Mexico. Along nearly the whole of the eastern coast and along much of the western coast is a line of narrow islands and sand reefs which fence from the ocean long, narrow, and shallow bodies of water called rivers, lagoons, bays, and harbors. These innumerable islands and keys are composed largely of sand, broken coral, and shell. A few of the southern keys are cov-

ered with hard rocky knolls; many are grassy or clothed with a jungle of shrubs and trees, and some of them have good soil. Their vegetation is West Indian rather than North American in character. The Florida Keys, an almost continuous chain of islands extending over 220 m. SW. from Biscayne Bay, are included in the state's boundaries, and the city of Key West on the island of the same name is the county seat of Monroe County. The western coast is more broken by bays and inlets than is the eastern coast. Its principal harbors are: Pensacola Bay, Tampa Bay, and Charlotte Harbor. The principal ports of the eastern coast are: Fernandina, Jacksonville, St. Augustine, and Miami.

Relief. The northwestern portion of Florida is a rolling, hilly country, similar to that of southeastern Alabama. The eastern section of the state belongs to the Atlantic Coastal Plain. The highest point, Mossyhead, is 274 ft. above the sea. Practically all of the state lies below

an altitude of 250 ft., this elevation being attained only in the extreme northwestern portion, and more than two-thirds of the state lies at an altitude of less than 100 ft. above tide level.

Drainage. Running N. and S. through the peninsula is a low ridge which forms the water parting between the streams flowing to the Atlantic and those flowing to the Gulf. Innumerable shallow lakes are scattered over the surface of the central part of the state, the largest being Lake Okechobee which has an area of over 1,200 sq. m., but whose depth is only about 15 ft. Among other lakes are Orange, Crescent, George, Weir, Harris, Eustis, Apopka, and Kissimmee. That many of the lakes are connected by underground channels is evidenced by the fact that a change in the level of one lake is often accompanied by a change in the level of another. Swamps and marshes are numerous, and include the Everglades in the south, covering more than 2,000,000 acres, the Kissimmee and Cypress swamps north of Lake Okechobee, and the Okefinokees wamp. which extends southward into the state from Georgia. Springs, many of which have saline and other mineral constituents, are found in various parts of the state; some of them are of great size and many have valuable medicinal properties. Green Cove spring, in Clay County, discharges about 3,000 gallons of sulphuretted water per minute. The springs often merge into lagoons and lake systems which are usually the sources of the rivers. The St. Johns River, which flows north from about the middle of the peninsula, enters the Atlantic near Jacksonville, and is navigable for nearly 250 m. from The Withlacoochee, rising in the northeastern part of Polk County, flows northwest into the Gulf of Mexico. The Escambia. Choctawatchee, Apalachicola, and the Suwanee, have their sources in other states and traverse the northwestern part of Florida. In all, Florida has nineteen navigable rivers.

Climate. In climate Florida is like a great tropical island. It is cooled by sea breezes from the Gulf which make the climate remarkably equable; and the state is a favorite winter resort, both for tourists and invalids. The range between the mean summer and winter temperature is only about 20°; the greatest recorded extremes are 105° and 10° F. The mean annual temperature of the state is 70.8° F. The rainfall averages about 52 in. per annum. There are

occasionally severe droughts.

Agriculture. The soil, while much of it seems a sterile sand, is helped to fertility by the abundant rainfall. Large areas are devoted to the raising of oranges, lemons, grapes, pine-apples, pears, guavas, figs, etc., and coffee, rice, cotton, and tobacco are natural products. Cocoanuts are also grown in the subtropical region. Market-gardening has become important. Of the state's entire land area, only 15 per cent is in farms. For the state as a whole, the average value of farm land per acre is \$17.84. The general character of Florida agriculture is indicated



by the fact that nearly one-fourth of the total value of crops is contributed by potatoes and other vegetables; about one-fifth by fruits and nuts; about one-sixth by cereals; and about oneseventh by cotton: the remainder, representing 24 per cent of the total, consists mostly of grains and seeds, forest products, and sugar crops. The principal crops are: tropical fruits, corn, cotton, peanuts, potatoes, sweet potatoes, yams, and tobacco.

The forests cover approximately Forests. three-quarters of the state and the lumber industries are important. About half the varieties of forest trees in the United States are found. but the yellow pine is predominant, except in the coastal marsh lands where cypress, found throughout the state, particularly abounds. Among the peculiar species are: the Florida mahogany, satinwood, cachibou, and the Florida

yew and savin, both nearly extinct.

Fisheries. The fisheries are very valuable; the total number of species of fish in Florida waters is nearly 600, and many species found on one coast are not found on the other. The king fish and tarpon are hunted for sport, while mullet, shad, redsnappers, pompano, trout, sheepshead, and Spanish mackerel are of great economic value. The sponge and oyster fisheries are also important.

Minerals. The chief mineral product is Fuller's earth, lime, and phosphate rock.

mineral waters are also produced.

Manufactures. Although Florida is not primarily a manufacturing state, its manufactures have shown a steady growth during the last sixty years. During this period, the gross value of products per capita for the entire population of the state increased from \$8 to \$97, and the proportion which the manufactures of the state represent of the total value of products of manufacturing industries in the United States increased more than four-fold. The leading industries (in order of value) are: the manufacture of tobacco, lumber and timber products,

turpentine and rosin, and fertilizers.

Education. The present system of common schools dates from the constitution of 1868 and the school law of 1869. The state constitution prescribes that white and colored children shall not be taught in the same school, but that impartial provision shall be made for both. There is no compulsory attendance law. The state provides higher education in the University of the State of Florida and a state Agricultural Experiment Station, both at Gainesville, and the Florida Female College at Tallahassee, which has the same standards for entrance and for graduation as the state university for men. Private educational institutions in Florida are: John B. Stetson University (Baptist) at Deland; Rollins College (non-sectarian) at Winter Park; Southern College (Methodist Episcopal, South) at Sutherland; the Presbyterian College of Florida at Eustis; Jasper Normal Institute at Jasper, and the Florida Normal Institute at Madison. The advanced education of negroes is provided for in the Florida Baptist Academy, and Cookman Institute (Methodist Episcopal, South), both at Jacksonville; and in the Normal and Manual Training School (Congregational), at Orange Park. There is a school for the blind, deaf, and dumb, at St. Augustine.

Government. The present constitution dates from 1886. The right of suffrage belongs to male citizens of the United States, twenty-one years of age or over, or those presenting naturalization certificates at registration centers, residents in the state one year and in the county six months at time of registration. To these requirements the payment of a poll tax has been added by legislative enactment. Insane persons and persons under guardianship, are excluded from the right of suffrage as are "all persons convicted of bribery, perjury, and larceny, or of infamous crime, or who shall make or become directly or indirectly interested in any bet or wager the result of which shall depend upon any election," or who shall participate in any duel. Executive. The governor is elected for a term of four years and is not eligible for the next succeeding term. He appoints the circuit judges, the state attorneys for each judicial

district, and the county commissioners; he fills certain vacancies, and may suspend and with the Senate remove officers not liable to impeachment. He is a member of the Board of Pardons, of the Board of Education, and the Board of Commissioners of the state institutions. Other executive officers are: the secretary of state, attorney-general, comptroller, and commissioner of agriculture. Legislative. state legislature consists of a Senate and a House of Representatives. Sessions are held at Tallahassee biennially (odd number years), and are limited to sixty days. The legislature has power to establish and abolish municipalities, to provide for their government, to prescribe their jurisdiction and powers, and to alter or amend the same at any time. Senators are elected for four years, one half retiring every second year; and representatives are elected for two years. JUDICIARY. The state judiciary consists of a supreme court, circuit courts, county courts, and justices of the peace. The three judges of the supreme court and the seven of the circuit courts serve for six years, those of the county courts for four years, and justices of the peace (one for each district, of which there must be at least two in each county) hold office for four years. County judges are required to act as judges of juvenile courts and keep a separate juvenile record, and the governor appoints probation officers in each county for dependent and delinquent children. LOCAL GOVERNMENT. The political unit of the state is the county. Five commissioners are elected for each county and their term of office is two years. For each county the officers are the clerk of the circuit court, sheriff, constables, a county assessor of taxes, tax collector, treasurer, superintendent of public instruction, and a county surveyor. Towns and cities have the privilege of establishing a commission form of government. History. Florida was discovered by Ponce

GEORGIA

admitted in 1868.

GEORGIA, one of the South Atlantic States and one of the thirteen original states of the Union, lies between latitudes 30° 25′ and 35° N., and longitudes 80° 48′ and 85° 54′ W. It is bounded on the N. by Tennessee and North Carolina; on the E. by South Carolina and the Atlantic Ocean; on the S. by Florida, and on the W. by Alabama. Georgia ranks tenth in area (59,265 sq. m., of which 540 sq. m. represent water surface) among the states of the Union.

Coast. The immediate shore line is bounded by a series of islands only slightly elevated above sea level. These islands are famous for their cotton, and are covered with a growth of oak, palmetto, magnolia, cedar, pine, and myrtle.

de Leon in 1513, settled by Huguenots in 1562, and permanently settled by Spaniards in St. Augustine in 1565. It was ceded to Great Britain in 1763, to Spain in 1783 and to the

United States in 1819. In 1818 General Jack-

son invaded Florida, attacked the Seminoles, and captured Pensacola, which was then restored to Spain. The state was admitted to the Union in 1845, seceded in 1861, and was re-

Relief. All of the physiographic belts of the eastern United States—Coastal Plain, Appalachian Mountains, Great Appalachian Valley, and Appalachian Plateau—are represented in Georgia. More than half the area of the state,

about 35,000 sq. m. (locally known as Southern Georgia), is occupied by the Coastal Plain section which extends from the Atlantic coast northward and northwestward to the "fallline." In elevation this section rises from sea level on the eastern border to altitudes of from 150-500 ft. along the "fall-line." For some miles back from the coast the surface is low and nearly level. Farther inland to the NW., the country becomes more rolling and varied in character. The "fall-line" in Georgia extends southwest from Augusta on the NE. boundary, through Milledgeville and Macon, to Columbus on the W. boundary. The Piedmont section forms a broad belt across the north-central portion of Georgia from the "fall-line" to the Blue Ridge escarpment on the NW. The altitudes range from about 350 ft., where it joins the Coastal Plain, to 1,200 ft. and more near its northern margin. The Blue Ridge escarpment, a striking topographic feature in the states to the northward, in Georgia marks the southeastern limit of the Appalachian Mountain region and the Great Valley region. This part of the state is occupied by ridges and high peaks of the southern Appalachian ranges, together with numerous limestone valleys in the extreme northwestern portion of the state, and beyond this is a small area of the Appalachian Plateau, known here as the Cumberland Plateau. There is wide range of altitudes in this northern section of the state, some of the mountains rising to altitudes in excess of 3,000 ft., while the rolling valley floors which are interrupted by numerous ridges rise from 750-900 ft. The highest point in the state, Sitting Bull (5,046 ft.), is in Towns County.

Drainage. On the Blue Ridge escarpment near the northeastern corner of the state is a water parting which separates the waters flowing NW. to the Tennessee River, SE. to the Atlantic Ocean, and SW. to the Gulf of Mexico, respectively. The waters flowing into the Atlantic and those flowing into the Gulf are separated and the Gulf are separated an rated by a highland which extends from the Blue Ridge escarpment SW. to Atlanta and then S. and SE. to the Florida line. The Great Valley region and a considerable portion of the Appalachian Mountain region are drained by the Coosa, the Tallapoosa, and their tributaries, into Mobile Bay; but the Cumberland Plateau constitutes a part of the Tennessee basin. The principal rivers of the state are: the Chattahoochee and the Flint, which unite in the southwestern corner to form the Apalachicola; the Ocmulgee and the Oconee, which unite in the southeast to form the Altamaha; and the Savannah, which forms the boundary between Georgia and South Carolina. All of these rise in the upper part of the Piedmont Plateau, through which their course is rapid, affording excellent water power to the "fall-line," south

of which they are navigable to the sea.

Climate. The climate is varied in different parts of the state. The mountain country in

the N. has cool, delightful summers and mild winters, with a mean annual temperature of about 40° F. This is one of the most salubrious areas in the country. The Piedmont section is warmer, but equally healthy, and has a mean temperature of from 60° to 65°. The Pine Barrens of the Piedmont and Coastal Plain sections are warm and healthful, and are especially recommended as a winter resort for invalids. The coast region and the southern portion generally are more enervating, and have a mean annual temperature of about 70°. The average rainfall for the state is 49.3 in. Snow falls occasionally in the northern and central regions, but less frequently in the south, and it never remains long.

Agriculture. The soils of the state are as varied as are its surface and climate. They range from the dark mucky soils of the Flatwoods region through grey and yellow sandy soils. heavy red sandy loams and red clays, to the sandy and silty loams of the mountain region and the dark brown or red clay loam and stony loams of the limestone valleys. Of the state's entire land area more than seven-tenths is in farms. During the last decade (1900-10) there was an increase in the total farm acreage, in the improved acreage, and in the number of farms, and the total value of farm property increased 154.2 per cent. Most of the plantations of the 19th Century have been divided into smaller parcels of land operated largely by ten-The products of Georgia are so diversified



that, with the exception of the sub-tropical fruits of southern California and Florida, almost everything cultivated in the United States can be produced. The chief agricultural staple of the state is cotton, which contributes about two-thirds of the total value of crops raised in the state. About one-fifth is contributed by cereals. Other crops, representing about 15.1 per cent, consist for the most part of potatoes and other vegetables, and forest products. leading crops (in the order of importance as judged by value) are: cotton, rice (an important product of the coast counties), sugar cane, corn, cottonseed, sweet potatoes and yams, oats, hay and forage. In the lowlands tropical fruits readily mature, while in the higher belts, peaches, apples, pears, etc., flourish. Fruits and market vegetables are exported to the North. dairy, poultry, and live stock interests of the state are increasing rapidly.

Fisheries. The fisheries of the state are not extensive, but are of some importance, especially

the oyster and shad fisheries.

Forestry. The forests of Georgia include the yellow pines of the southern part of the state, valuable for rosin and turpentine as well as their lumber products, and the cypress, oak, and

poplar.

Minerals. The state has varied mineral resources, a total of thirty-nine different minerals being found within its borders. The most important is stone. The marble and granite quarries rank third in the United States in the value of their output. Other mineral products are: gold, silver, coal, iron and manganese ores, iron pyrites, beauxite, graphite, lime, ochre, infusorial earth, natural cement, tale and soap stone.

Though Georgia is an Manufactures. agricultural rather than a manufacturing state, it has been for the past sixty years one of the leading and most progressive industrial states of the South. The chief features of its industrial activity are its early beginning and its steady and constant development. The superior transportation facilities of the state account in part for its rapid industrial growth. It is traversed by the important railway systems of the South, which afford easy access to all parts of the state. It furnishes, also, excellent advantages of water communication. The most important industries (judged by value of product) are: cotton goods, lumber and timber products, cottonseed-oil and cake, fertilizers, flour and grist-mill products, turpentine and rosin.

Education. Georgia has a complete public school system but no compulsory education law. Public schools are under the supervision of a school commissioner and a state board of education, the latter being professional rather than political in its character. There is also a school supervisor in each county. In addition to the public schools the state supports the University of Georgia at Athens, and eleven agricultural and mechanical arts colleges. Af-

filiated with the university, but not receiving state funds, are three preparatory schools, the South Georgia Military and Agricultural College at Thomasville, the Middle Georgia Military and Agricultural College at Milledgeville, and the West Georgia Agricultural and Mechanical College at Hamilton. Among the denominational institutions are—Baptist: Mercer University at Macon, Shorter College at Rome, Spelman Seminary for negro women and girls in Atlanta, Bessie Tift College (formerly Monroe College for women) at Forsyth; Methodist Episcopal: Emory College at Oxford, Wesleyan Female College at Macon; Methodist Episcopal, South: Young Harris College at Young Harris, Andrew Female College at Cuthbert, Dalton Female College at Dalton; Presbyterian: Agnes Scott College at Decatur; African Methodist Episcopal: Morris Brown College at Atlanta; Non-Sectarian, for women: Lucy Cobb Institute at Athens, Cox College at Col-lege Park near Atlanta, Brenau College Con-servatory at Gainesville; Non-Sectarian for negroes: the Atlanta University at Atlanta.

Government. The present constitution of Georgia was adopted in 1877 and has since been amended at various times. Excluded from the suffrage and the holding of office are: idiots, women, insane persons, and all those who have been convicted of treason, embezzlement, mal-feasance in office, bribery, larceny, or any crime involving moral turpitude (unless pardoned). Before 1909 any male citizen of the United States at least twenty-one years of age (except those mentioned above), who had lived in the state for one year immediately preceding an election and in the county six months, and had paid his taxes, was entitled to vote. By a constitutional amendment which came into effect on the 1st of January, 1909, it is further required that a voter shall have served in land or naval forces of the United States or of the Confederate States, or of the state of Georgia in time of war. or be lawfully descended from some one who did so serve; or that he be a person of good character who proves to the satisfaction of the registrars of elections that he understands the duties and obligations of a citizen; or that he read correctly in English and (unless physically disabled) write any paragraph of the Federal or state constitution; or that he own forty acres of land or property valued at \$500 and assessed for taxation. The amendment further provides that after the 1st of January, 1915, no one may qualify as a voter under the first or second of these clauses (the "grandfather" and "understanding" clauses); but those who shall have registered under their requirements before the 1st of January, 1915, thus become voters for life. EXECUTIVE. All executive officers are elected for a term of two years. There is no lieutenantgovernor. The governor" must be at leastthirty years old, must at the time of his election have been a citizen of the United States for fifteen years and of the state for six years, and

shall not be eligible for reëlection after the expiration of a second term for the period of four vears." In case of his death, removal, or disability, he is to be succeeded in the first instance by the president of the Senate, and in the second, by the speaker of the House of Representatives. The governor's power of veto extends to separate items in appropriation bills, but his veto may be overridden by a two-thirds vote of the legislature. The people elect an attorney-general for the state, and the General Assembly elects a solicitor-general for each judicial court. LEGISLATIVE. The legislature or General Assembly consists of a Senate and a House of Representatives. Legislative sessions are held annually at Atlanta and are limited to 60 days. Members of the Senate must be at least twentyfive years old, must be citizens of the United States, and must, at the time of their election. have been citizens of the state for at least four years, and of the senatorial district for one year; representatives must be at least twentyone years old, and must at the time of their election have been citizens of the state for two years. Judiciary. The judiciary of the state consists of a supreme court, court of appeals, a

superior court, and courts of justice of the peace. The supreme court consists of a chief justice and five associate justices chosen by popular election for terms of six years. There is a superior court judge for each judicial circuit, the judge being elected by the general assembly for a term of four years. The superior court must sit in the county not less than twice in each year. The powers of a court of ordinary and of probate are vested in an ordinary for each county, and in each militia district the voters elect a justice of the peace whose term of office is four years, as is also that of the county ordinary.

History. Georgia, named in honor of George the Second, was settled by a chartered company of English colonists under Oglethorpe in 1733, as a refuge for poor whites and persons seeking religious freedom. Georgia became a Royal Province in 1752, and was the fourth state to ratify the Federal constitution (January 2, 1788). It seceded in January, 1861, and was readmitted to the Union in June, 1868. Because of its noble, progressive spirit and its rapid industrial growth, it is now known as the "Empire

State of the South."

GUAM

GUAM, an island in the North Pacific Ocean, belonging to the United States. It lies at the southern extremity of the Mariana or Ladrone Archipelago, in latitude 13° 26′ N., and longitude 144° 43′ E., and is the largest island of the group. Guam is about 30 m. long from northeast to southwest, and has an average width of

 $6\frac{1}{2}$ miles. Its area is 210 sq. miles.

Relief. The northern portion is a plateau lying from 300 to 600 ft. above the sea, lowest in the interior and highest along the east and west coasts, where it terminates in bold bluffs and headlands. Mt. Santa Rosa, toward the northern extremity, has an altitude of over 800 feet. The southern portion of the island is traversed from north to south by a range of hills from 700 to 1,200 ft. in height. Mt. Jumullong Mangloc (1,275 ft.) is the highest point. Between the base of the steep western slope of these hills and the sea is a belt of lowlands. On the eastern side, the surface has a general slope toward the east and terminates in a coast line of bluffs.

Drainage. A number of rivers have their sources in the hills, but their courses are short. At Apra is a naval station, and the port of entry

is Piti.

Climate. Guam, lying in tropic seas, and having a mean annual temperature of about 81 degrees, is on the dividing line between the northeast trade winds and the monsons of the China Sea. From December to June the prevailing winds are from the northeast. The nights are cool and refreshing showers are frequent. The most agreeable months are March, April, May and June. From July to December,

southwest winds hold sway, often accompanied by heavy rains. Hurricanes may occur at any time, but are most frequent in October and November. They are much to be dreaded, and often cause great loss of life and property. Earthquakes, while frequent, are not generally violent, but there have been some very destructive ones.

Agriculture. The lowlands of Guam have a rich soil, and agriculture is the main industry. Most of the farm lands lie along the southwest coast. Although but a small portion of the island is as yet under cultivation, the area utilized is increasing under government encouragement. The chief products are maize, cocoanuts, rice, sweet potatoes, coffee, and sugar. The land possesses much valuable timber, but there is no mineral wealth, with the possible exception of coal.

Forests. The trees native to the island are the breadfruit, banyan, inonwood, and several kinds of palms, including the cocoanut. The latter is the most valuable of all, as the pulp of the nut, dried, and known as "copra," supplies the islanders with their principal article of export.

Minerals. There is, so far as is now known,

no mineral wealth in Guam, but some indications of iron ore and also of gypsum may prove

in time to be important.

Inhabitants. The inhabitants of Guam are descendents of the original Chamorros and of immigrant Tagals and Spaniards from the Philippine Islands. In their physical characteristics the natives resemble the Hawaiians, having light brown skin, straight black hair and fine features. The men are dressed in shirt and

trousers, with a straw hat, and the women in white waist with flowing sleeves and a trailing skirt. The people of Spanish extraction are fairly intelligent, live in houses built of coral stone, and have many of the comforts of life. The poorer classes, natives and half-breeds, live in wooden shacks, built on poles three or feur feet above the ground, the space below being utilized by the pigs, dogs and chickens owned by the family. They are naturally indolent, cowardly and superstitious, but they have their redeeming qualities and show much of friendliness when properly treated. Their love for music is indulged to the utmost, and it is believed by those most conversant with their characteristics that education and training will make these people industrious, sober and useful members of their community. The native language contains Chamorro and Tagal words, but Spanish is also spoken, and the use of English is spreading.

Education. A compulsory school system is in operation both in Agaña and in the native villages. The children are taught in English, and also receive instruction in carpentry and other handicrafts. An agricultural experiment station has been established by the Federal

government.

Government. The island is under the jurisdiction of the naval department of the United States, and has been designated as a naval station for the purposes of government and protection. The governor of the island, a naval officer appointed by the President, is commandant of the naval station, and also the military commandant of the island. He combines the functions of the legislative, executive, and judicial powers of the government. The judicial system comprises one island court for the trial of all cases, criminal and civil, and one court of appeals. There is a wireless telegraph plant on the island, which is in cable telegraphic communication with all parts of the world. There is a monthly mail service per westbound U. S. Army Transports from San Francisco, via Honolulu, to Manila. The port is closed to foreign vessels of war and commerce except in special cases. Permission to visit the island must be obtained from the naval department of the United States Government.

History. The Mariana Islands were discovered by Magellan in 1521, but it was a century and a half later before any attempt was made to plant a colony and civilize the natives. After the war of 1898 the Island of Guam be-

came a possession of the United States.

HAWAII

HAWAII. (Hawaiian or Sandwich Islands), a Territory of the United States, occupying a group of islands in the North Pacific Ocean, about 2,000 m. southwest of San Francisco. The islands, twelve in number, form a beautiful

chain, which runs from southeast to northwest, and lies in latitude 19° to 22° N., and longitude 155° to 160° W. The archipelago contains 6,449 sq. miles. There are eight inhabited islands—Hawaii, Maui, Kahoolawe, Lanai, Mo-

lokai, Oahu, Kauai, and Niihau. In addition there are many uninhabited islands and islets, which continue the chain in a northwesterly direction beyond the limits above given. They are valuable only for their guano deposits and shark fishing grounds. The islands are of volcanic origin, with coral reefs partly encircling most of them, the only well-protected harbor being that of Honolulu on Oahu Island.

Hawaii Island, which gives the name to the group, is roughly triangular in shape, and its coast, unlike that of the other islands of the archipelago, has few coral reefs. Its surface is mainly occupied by five volcanic mountains. Of these, Mauna Loa, in the southern half of the island, is the largest volcano in the world, measuring, at its base, about 75 m. from north to south and 50 m. from west to east. It rises to a height of 13,675 ft. above sea level. Adjoining it on the southeast is Kilauea (4,040 ft.) whose lava flows have formed the southeastern extension of the island. Northeast of Mauna Loa, joined to it by an intervening plateau, is Mauna Kea (13,895 ft.) or White Mountain, the loftiest summit in the Pacific Ocean. To the northwest Mauna Loa is merged in Mauna Hualalai (8,273 ft.). The Kohala Mountains (5,505 ft.) rise abruptly from the northwestern shore. Of the above volcanoes, Mauna Loa and Kilauea are still active.

Maui Island, lying about 25 m. northwest of Hawaii, is composed of two mountainous peninsulas connected by an isthmus seven or eight miles long and five or six miles wide. The eastern mountain, Haleakala is the largest crater known in the world. It is from 25 to 30 m. in circumference, from 2,000 to 3,000 ft. deep, and is more than 10,000 ft. above sea level. The mountain mass of western Maui is characterized by sharp ridges and deeply eroded gorges or valleys. Puu Kukui, its highest point, rises nearly 6,000 ft. above the sea. Below this, the Iao Gorge, or valley, five miles long and two miles wide, is cut into the mountain to a depth of 4,000 feet. Many of the valleys of the island are famed for the beauty of their scenery.

Kahoolawe is a small island, about five miles wide and fifteen miles long, lying about six miles southwest of Maui. Its bare and rugged mountains nowhere attain an elevation of more than 1,500 ft., and its intervening valleys are used extensively for sheep pastures. Kahoolawe is privately owned, as is also the island of Lanai seven miles to the westward.

Molokai Island, eight miles northwest of Maui, is about forty miles long from east to west, and has an average width of 6½ miles. It is mountainous, its culminating point being the peak of Kamakou (5,000 ft.). About midway of the northern shore is a peninsula, on which is established the famous Leper Settlement of Molokai.

Oahu Island, twenty-five miles northwest of Molokai, is traversed from northwest to southeast by two nearly parallel ranges of hills, which are separated by a wide plain. The highest point on the island is Mauna Kaala (4,000 ft.) in the Waianae or Western Range. This island is nearly surrounded by a coral reef, which in places is half a mile in width.

Kauai Island, known as the "garden isle" of the group, lies about sixty miles northwest of Oahu. It is roughly circular in form, and is about twenty-five miles in diameter. On the northwest the island rises for over 2,000 ft. sheer from the sea, and above this precipitous wall is a mountain plain; elsewhere the island has a shore plain. Near the center of the island Mt. Waialeale rises to an elevation of 5,000 feet. The shore plain is broken by ridges and deep valleys. The island is well watered on both sides by large mountain streams.

Niihau Island is the most western of the inhabited islands. It lies nearly twenty miles southwest of Kauai.

Climate. The Hawaiian Islands, though within the tropics, enjoy a fairly temperate climate with a mean temperature of 74.3 F. Rains, brought by the N. E. Trade winds, are frequent on the side of the mountains which faces that quarter, but on the other parts of the islands little rain falls, and the sky is generally cloudless. The yearly rainfall is about 54 inches.

Agriculture. On the plains of Hawaii thousands of sheep of the merino breed find grazing ground; and on most of the island, while the upland slopes of the mountains are clothed with dense forests, the lower levels spread into grassy plains rich with sugar and rice plantations. The staple foods of the natives consist of poi, a thick paste made from the root of the taro plant, and raw or dried fish. Other agricultural products of the island are sisal, bananas, pineapples, wool, tobacco, cotton, and rubber.

apples, wool, tobacco, cotton, and rubber.

Minerals. The islands have large supplies of pumice, sandstone, sulphur, gypsum, alum and mineral paint ochres, and some salt, kaolin, and salamoniac, but otherwise they are without mineral wealth.

Forests. The Hawaiian forests are tropical and are composed largely of trees below the medium height. The destruction of considerable portions of the forests by fire and cutting has been followed by re-foresting, and the establishment of forest reserves both privately and government owned. Hawaiian mahogany furnishes much valuable lumber. Rubber is extensively cultivated.

Manufactures. The manufacturing establishments of the Hawaiian Islands turn out products to the value of fifty million dollars annually, and the manufacturing industries of the territory as a whole show a tendency to increase. The prosperity of Hawaii depends largely upon its sugar products, the value of the output being many times greater than that of all others combined. Next in importance to sugar are the cleaning and polishing of rice and coffee, and the preserving of pineapples. All the

other manufacturing industries are maintained

for supplying local needs.

Commerce. Many lines of steamers connect the islands with the United States, Australia, the Philippines, China, and Japan. An interisland steam navigation company provides communication between the different islands. There are nearly 300 m. of railway in the islands, and new lines are projected. Hawaii is connected by cable with both shores of the Pacific, and the Marconi system of wireless telegraphy is established in the islands.

Inhabitants. Of the different races occupying the archipelago, the Japanese are the most numerous. Hawaiians and part Hawaiians are next, then follow Portuguese, Chinese, Americans, British and German subjects, Coreans, Spanish, and Porto Ricans. Chinese, Japanese, and Corean immigration is now prohibited.

Education. Schools are established all over the islands, and elementary education is free. Besides the elementary schools, the Territory is provided with a normal and training school, a reformatory industrial school, and a college of agriculture and the mechanic arts. Nearly all the natives are Christians. Roman Catholics, Protestants, Buddhists, and Mormons are represented in the population.

Government. Hawaii is administered by a governor who is appointed for four years by the President of the United States. The Territory is represented in the Congress of the United States by a delegate elected biennially. The territorial legislature consists of two houses—a

senate, members of which are elected for four years, and a house of representatives, members of which are elected for two years. Legislative sessions, limited to sixty days, are held biennially at the capital, Honolulu. For purposes of local government, the Territory is divided into counties within which the local authorities have restricted powers. Hawaii has a supreme court, circuit courts, district courts, and a land registration court; the circuit judges sit also as juvenile courts. The judges of the supreme court and circuit courts are appointed by the President of the United States, the district magistrates by the chief justice of the supreme court. There is also a United States district court, the judges of which are appointed by the President.

History. The islands are said to have been discovered in 1542 by Gaetano, and rediscovered in 1778 by Captain Cook. Kamehameha formed the islands into one kingdom. Missionaries came from America in 1820, and in less than forty years they gave to the whole Hawaiian people the rudiments of a common school education and taught them something of domestic science. In 1843 the independence of the kingdom was guaranteed by the French and English governments. Kalakaua, elected king in 1874, died in 1891, and was succeeded by his eldest sister, Liliuokalani, who was dethroned in January, 1893, and a provisional republican government set up. The islands were finally annexed by the United States in 1898, and in 1900 were organized as one of the territories of the United States.

IDAHO

IDAHO, one of the Mountain States of the United States, lies between latitudes 42° and 49° N., and longitudes 111° and 117° W. It is bounded on the N. by British Columbia and Montana, on the E. by Montana and Wyoming, on the S. by Utah and Nevada, and on the W. by Oregon and Washington. The state has an extreme length from north to south of 490 m., and an extreme width from east to west of 305 miles. In gross area it ranks twelfth among the states of the Union (83,888 sq. m., of which 534 sq. m. represent water surface).

Relief. Idaho has a mean elevation of 4,500 ft. above sea level, the lowest point (738 ft.) being at Lewiston, Nez Percés County, and the highest point, Hyndman Peak (12,078 ft.), on the boundary between Custer and Blaine Counties. Idaho comprises three physiographic provinces: the Rocky Mountain Region, the intermontane Plateau Region, and the Great Basin Province. The Rocky Mountains occupy the eastern and extreme northern portions of the state. The state's irregular northeastern boundary is formed by the main ridge of the Rocky Mountains and its northwestward extensions, the Bitter Root, the Coeur d'Alene, and Cabinet Ranges. The Rocky Mountains occupy the northern, or Panhandle, part of the state.

Farther south, where the state is widest, the area is roughly divided by the Salmon River Range, among whose numerous lofty peaks is found the highest point in the state, Hyndman Peak, mentioned above. The scenery of the mountainous region of Idaho is wild and impressive. The region is made up in general of high ranges preserving some remnants of ancient glaciers, many sharp peaks and ridges, "U"shaped valleys, circues, lakes, and waterfalls. The western portion of the state, except in the extreme north, is occupied by the great plateaulike plains constituting the northwestern inter-montane region, which lies between the western slopes of the Rockies and the eastern slopes of the Cascade Ranges. A broad extension of this plateau borders the Snake River, and extends nearly to the eastern boundary of the state. Through this elevated plateau the Snake River and its tributaries have cut deep gorges and canyons. Many volcanic cones and mountain masses mark its surface. The southeastern portion of the state belongs in the Great Basin Province of the United States. The topography of this region is similar to that of the same region in other states; its mountains are practically a part of the Wasatch Range of Utah, and they form the watershed dividing the Snake River Valley from the Great Salt Lake Basin.

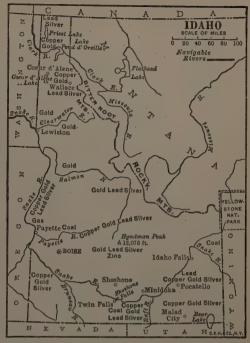
Drainage. The Snake (or Lewis) River receives all the drainage of Idaho, except small amounts taken by the Spokane, Pend d'Oreille, and the Kootenai in the north (all of which empty directly into the Columbia), and by some minor streams of the southeast that empty into Great Salt Lake, Utah. The Snake River is the largest affluent of the Columbia. It rises in Yellowstone National Park, a few miles from the source of the Madison Fork of the Missouri which flows into the Gulf of Mexico, and Greene Fork of the Colorado, which flows into the Gulf of California. It flows southward and then westward for about 800 m. in a tremendous canyon across southern Idaho, turns north and for nearly 200 m. forms the boundary between Idaho and Oregon, and for a short distance between Idaho and Washington. At Lewiston it turns westward into the state of Washington, where it empties into the Columbia River. The walls of the canyons through which it flows vary from a few hundred feet to 6,000 ft. in height. The largest falls of the river are the Shoshone Falls, Lincoln County, where the river makes a sudden plunge of nearly 200 ft. These are the most impressive falls in the United States, after those of Niagara. The largest affluents of the Snake River are the North Fork, the Raft, the Salmon Falls, the Bruneau. the Owyhee, the Payette, and the Clearwater. Scattered among the mountains are numerous lakes, among the best known being Coeur d'Alene Lake, in Kootenai County; Priest Lake, in Bonner County; and between Bonner and Kootenai Counties, Lake Pend d'Oreille, an extension of the Clark Fork River; Bear Lake, in the extreme southeast, lying partly in Utah. Mineral springs and hot springs are found in more than a third of the counties of the state.

character of the state, the winters are not often severe, and even in the north cattle may range in the valleys all winter without shelter or fodder. The mean annual temperature of the state is about 45.5° F. The mildest parts of the state are the Snake River Basin between Twin Falls and Lewiston, and the valleys of the Boise, Payette, and Weiser Rivers. Here the mean annual temperature is 52° F. In the upper Snake Basin, in the Camas Prairie and Lost River regions, the climate is much colder. The northern part of the state receives sufficient rainfall for the growing of most crops without irrigation, the normal anunal precipitation ranging from 20 to 25 in. and over. In the southern section of the state the precipitation is much less. The mean annual rainfall for the entire

state is nearly 17 inches.

Agriculture. Except for the broad valleys of the Panhandle, where the soils are black in color and rich in vegetable mold, the surface of the state is arid. The Snake River valley is a

vast lava bed covered with deposits of salt and



sand, or soils of volcanic origin. The principal source of wealth in Idaho is agriculture, but for many years it was secondary to mining. The state's agricultural development was long impeded by the lack of transport facilities and the absence of near-by markets. The building of railways and the construction of irrigation projects have brought a great change to the state's industrial life. In the state as a whole, fully one-half of the farms are irrigated. The leading crops of the state (in the order of their importance as judged by value) are: hay and forage, wheat, oats, barley, and potatoes. The stockraising industry is carried on most extensively in the southeastern part of the state, and Idaho is one of the first wool-producing states.

Forests. Evergreen (coniferous) trees cover many of the hills and mountains with a dense forest. Red cedar predominates in the north, and pines, firs, spruce, etc. are abundant in many districts. Of hardwood timber there is very little in the state.

Minerals. The mineral interests of Idaho are now second to those of agriculture. The principal products are gold and silver. Idaho is one of the greatest lead-producing states in the country. Other minerals of economic value are zinc, sandstone, limestone, and coal. Minerals which are as yet comparatively undeveloped are granite, surface salt, nickel, cobalt, tungsten, monazite, and zircon.

Manufactures. Since the admission of Idaho as a state of the Union, its development

in manufacturing has more than kept pace with its growth in population. The most important industries (arranged in the order of value of products) are: the manufacture of lumber and timber products, cars and general shop construction and repairs by steam railroad companies, printing and publishing, and dairy products.

Education. The public schools of the state are under the control of a state board of education, and under the supervision of a state superintendent. School attendance is compulsory for children between the ages of eight and eighteen years, unless they are excused on a doctor's certificate, or are over fourteen years of age and have passed through the eighth grade. Higher education is provided by the University of Idaho at Moscow, and the Academy of Idaho at Pocatello, an institution with industrial and technical courses and a preparatory department. There are two state normal schools, one at Lewiston and the other at Albion. The state has an industrial training school and a school for the deaf and blind. There are a number of sectarian colleges or schools to which pupils are admitted without respect to their religious belief, among them being the College of Caldwell (Presbyterian), at Caldwell; Catholic academies at Boise and Coeur d'Alene; and a Convent of Our Lady of Lourdes, at Wallace. There are Mormon schools at Paris, Preston, Rexburg, and Oakley; a Methodist Episcopal school at Weiser; and a Protestant Episcopal school, at Boise.

Government. Idaho is governed under the constitution adopted in 1889, and its amendments. The right of suffrage is bestowed upon all citizens of the United States, male or female, who have resided in the state for six months and in the county for thirty days preceding the elec-tion. Excluded from the suffrage are idiots, insane persons, persons convicted of felony, bigamists, polygamists, and persons under guardianship. Executive. The chief executive officers are the governor, lieutenant-governor, and attorney-general, each of whom must be at least thirty years of age; and the secretary of state, state attorney, treasurer, and superintendent of education, who must be at least twenty-five years of age. All executive officials serve for a term of two years. The governor's veto may be overridden by a two-thirds vote of the legislature. LEGISLATIVE. The legislature. consisting of a Senate and a House of Representatives, meets at Boise biennially (odd number

years), the sessions being limited to 60 days. Its members must be citizens of the United States and electors of the state for one year preceding their election. They are elected biennially. The number of senators may never exceed twenty-four; that of representatives sixty. Each county is entitled to at least one representa-JUDICIARY. Judicial power is vested in a supreme court of three judges, elected by the state at large for six years; and in district courts, in each of which a judge is elected for four years. There are also probate courts, and justice of the peace courts. Local Government. The legislature maintains a uniform system of county government, and by general laws provides for township and precinct organization, and for the incorporation, organization, and classification of cities and towns. The county officers are county commissioners, a sheriff, treasurer, probate judge, county superintendent of public instruction, assessor, coroner, and surveyor—all elected biennially. Other county officers are a clerk of the district court, one elected by each county for a term of four years; and a prosecut-ing attorney, one elected by each county for a

term of two years.

History. The first recorded exploration of Idaho by white men was made by Lewis and Clark in 1805. In 1810, Ft. Henry on the Snake River was established by the Missouri Fur Company. In 1834 Ft. Hall in east Idaho was founded. Missions to the Indians were established by both Catholics and Protestants about the same time. The territory now constituting Idaho was comprised in the territory of Oregon from 1848-'53; from 1854-'59 the southern portion of the present state was a part of Oregon, and the northern portion, a part of Washington Territory; from 1859–'63 the territory was within the bounds of Washington Territory. was organized as a territory on March 3rd, 1863, but at that time included both Montana and Wyoming, and comprised more than three times its present area. In May, 1864, a part was set aside as Montana, and in 1868 Wyoming was organized, and Idaho assumed its present boundaries. Gold was discovered in 1860, and the population of the territory rapidly increased. Idaho was admitted to the Union as a state in 1890. Between 1857 and 1877 there were a number of serious Indian outbreaks. In later years there were frequent conflicts in the mining districts between the union and non-union laborers, and United States troops were called in to quell the trouble.

ILLINOIS

ILLINOIS (the Prairie State), an East North-Central State of the Union, lies between latitudes 36° 59′ and 42° 30′ N., and longitudes 87° 30′ and 91° 38′ W. It is bounded on the N. by Iowa and Wisconsin; on the E. by Lake Michigan, Indiana, and Kentucky; on the S. by Kentucky and Missouri; and on the W. by Missouri and Iowa. The state has a total area

of 56,665 sq. m., of which 622 sq. m. represent water surface. It ranks twenty-third in size among the states of the Union.

Relief. Illinois occupies the central portion of the low plateau which forms the upper part of the Mississippi Basin. The greater part of the state lies wholly in the Prairie Plains region, but the northeastern corner belongs in what is

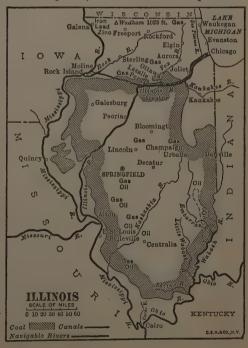
known as the Great Lakes district. The southern point touches the Coastal Plain Province at its northward extension, known as the Mississippi Embayment. The surface as a whole is an inclined plain, sloping gently south and southwest and having an average elevation of about 600 ft. above sea level. The highest point in the state, Wadham (1,023 ft.), on the Wisconsin border, is one of a chain of hills that crosses the northern part of the state from McHenry County on the east to the Mississippi River on the west. The northwestern corner of the state is broken and uneven in surface. Along some of the principal rivers bluffs rise to a considerable height, and there are a number of deep valleys formed by stream erosion. A height of land runs from north-northwest to south-southeast, crossing the Rock River at Grand Detour and the Illinois at Split Rock. A slight elevation runs along the Mississippi from the mouth of the Illinois River to Grand Tower in Jackson County; and from Grand Tower another and more marked elevation, having altitudes of 850 ft. and more, runs eastward across the state to Shawneetown in Gallatin County, on the Wabash River. The region south of this elevation lies approximately 265 ft. above the Gulf of Mexico. The country here was originally covered with forest, but north of the ridge there was little timber save along the stream courses.

Drainage. Through the Mississippi and its numerous branches the waters of Illinois are carried to the Gulf of Mexico. Three-quarters of the drainage of the state flows directly into the Mississippi, while the other quarter is carried to the Mississippi through the Ohio and its tributaries. The rivers that cross or touch the state are navigable for over 400 m., while by way of the Great Lakes Chicago has also a water highway to the Atlantic. The principal river of the state is the Illinois, formed by the union of the Des Plaines and the Kankakee Rivers. about 45 m. southwest of Lake Michigan. The course of the Illinois through the state is nearly 500 m., and it drains an area of more than 25,000 sq. miles. At some points, notably at Lake Peoria, it broadens into wide expanses resembling Besides its natural water supply, the Illinois River receives, through the Illinois and Michigan and the Chicago Drainage Canal, a supply of water from Lake Michigan. North of the Illinois River the principal stream is the Rock River (about 325 m. long, but navigable to a very limited extent because of the rapids which obstruct its course) which rises in southern Wisconsin, flows across Illinois, and enters the Mississippi River three miles below Rock Island. South of the Illinois, the Kaskaskia River (about 300 m. long and navigable to Vandalia) enters the Mississippi at Chester. The Wabash River forms the eastern boundary of the state from Clarke County to Gallatin County, where it enters the Ohio. Its principal branches in Illinois are the Embarrass River and the Little Wabash. Besides the Wabash, the principal

streams flowing directly into the Ohio are the Saline and the Cache. In the marshy region of northeast Illinois are several shallow lakes which are frequented by sportsmen and fowlers.

Climate. Illinois extends through 51/2 degrees of latitude, the northern limit of the state having nearly the latitude of Marblehead, Massachusetts, and the southern being nearly as far south as Norfolk, Virginia. The mean annual temperature in Cairo is 58° F., and it decreases to the northward at the rate of about two degrees for every degree of latitude, being 52° at Springfield, and 47° at Winnebago near the northern border. The extremes of temperature have a wide range from -25° to 105° F. and more. The mean annual rainfall for the whole state is about 38 inches. The mean annual snowfall increases from 12 in. at the southern extremity to nearly 40 in. in the northern counties. Notwithstanding its extremes of temperature, Illinois is one of the healthiest states in the Union. In the southern part of the state the prevailing winds are southerly during the greater part of the year; throughout the northern half they are from west to northwest, except along the shores of Lake Michigan. where they are from northeast to southwest.

Agriculture. The fertile soil—heavy black loam—and a favorable climate make Illinois one of the richest agricultural states in the Union. A large proportion of the land area is topographically suited to the best forms of agricultural occupation, and a diversified and profitable



agriculture is possible. The general character of Illinois agriculture is indicated by the fact that about four-fifths (79.9 per cent) of the total value of crops is contributed by the cereals and about one-tenth (10.9 per cent) by hay and forage; the remainder, representing in value about 9 per cent of the total, consists mostly of potatoes and other vegetables, flowers and plants and nursery products, fruits and nuts, and forest products. The leading crops (in the order of their importance as judged by value) are: corn, oats, hay and forage, wheat, potatoes, and broom corn. The live stock interests of the state are extensive, and it ranks among the first in the breeding of cattle, hogs, and horses. Dairying interests are also important. The production of small fruits and orchard fruits is widely distributed throughout the state.

Forests. The original forest area of the state was almost wholly in the southern counties, and nearly all the trees which the northern half of the state had before the coming of the whites were along the banks of streams; the area of woodland has, however, been considerably ex-

tended by tree planting.

Fisheries. The fisheries of the state center chiefly at Chicago. Lake Michigan produces wall-eyed pike, several kinds of bass, salmontrout, whitefish, carp, lake-herring, sturgeon, etc. The Mississippi and its tributaries yield wall-eyed pike, white perch, sturgeon, and other species, many of them utilized as food fishes.

Minerals. The great central coal field of North America extends into Illinois from Indiana. It covers the greater part of the state from the northern boundary of Grundy County southward, and enters Kentucky, thus including more than three-quarters of the land surface of the state. Coal is produced in fifty counties, and in some years the value of the state's production of coal has been exceeded only by that of Pennsylvania. The petroleum-producing area of commercial importance is in the southeastern part of the state, centering in and about Crawford County. Illinois is one of the three great petroleum producing states. In connection with petroleum, the yield of natural gas is considerable. Zinc, fluorspar, sandstone, limestone, glass sand, natural rock cement, and clay products are other minerals of commercial importance.

Manufactures. Illinois is the most important manufacturing state west of the Alleghanies. The growth of manufacturing industries during the latter half of the 19th Century was due largely to the development of wonderful transportation facilities. The most important industry is the wholesale slaughtering and packing of meats, which yields about 25 per cent of the total manufactured product of the state. Secondary enterprises that have developed from this industry provide for the utilization of nearly all portions of slaughtered animals. Other industries (in the order of value of products) are: the manufacture of foundry and machine-shop products, men's clothing, printing and publish-

ing, iron and steel products, agricultural implements, distilled liquors, flour-mill and grist-mill products, and lumber and timber products. Iron, for products depending upon iron and steel as a raw material, is brought from the Lake

Superior region.

Education. The state provides a thorough and efficient system of free public schools under the supervision of the state superintendent of education. School attendance during the full term is compulsory for children from seven to fourteen years of age. The average school year is 158 days. For higher education the state supports five normal schools and the University of Illinois which is situated in the cities of Champaign and Urbana. Associated with the University are the State Laboratory of Natural History, the State Water Survey, the State Geological Survey, the State Entomologist's office, and Agricultural and Engineering Experiment Stations. The schools of medicine, dentistry, and pharmacy are in Chicago. There are more than forty other universities and colleges in the state, the most important being the University of Chicago; Northwestern University (Methodist Episcopal), at Evanston; the Illinois Wesleyan University (Methodist Episcopal), at Bloomington; Knox College (non-sectarian), at Galesburg; Loyola University (Roman Cath-olic), at Chicago; Illinois College, at Jackson-ville; and Lake Forest College (Presbyterian), at Lake Forest.

Government. Illinois is governed under the constitution adopted in 1870 and its subsequent amendments. Qualified electors are all male citizens of the United States twenty-one years of age and over who have resided in the state for one year, in the county for ninety days, and in the election precinct for thirty days next preceding the election. In 1913, the state legislature extended to women all franchise rights within its power to bestow, namely, for all offices not created by the state constitution. Any person convicted of bribery, felony, or infamous crime is disfranchised. EXECUTIVE. The executive officials of Illinois hold office for four years, with the exception of the treasurer, whose term of office is two years. The governor must be at least thirty years of age and he must also have been a citizen of the United States and of Illinois for the five years preceding his election. His veto may be overridden by a two-thirds vote of all the members elected to the legislature. Other state officials are the lieutenantgovernor, secretary of state, auditor, attorneygeneral, adjutant-general, superintendent public instruction, and superintendent of insurance. LEGISLATIVE. The state legislature, or General Assembly, consists of a Senate and House of Representatives; sessions, which are unlimited as to length of term, are held biennially (odd number years) at Springfield. The state is divided into fifty-one senatorial districts, from each of which one senator and three repre-sentatives are elected. The term of senators is

four years and that of representatives two years. Candidates for senator must be at least twentyfive years of age, those for representative twentyone; other requisites for membership in the General Assembly are citizenship in the United States, and residence in Illinois for five years, two of which must have been just preceding a candidate's election. Before entering upon the duties of his office each member of the legislature must take a prescribed oath that he has "neither given nor promised to give anything to influence voters at the election, and that he will not accept, directly nor indirectly, money or other valuable thing from any corporation, company, or person for his vote or influence upon proposed legislation." JUDICIARY. The judiciary consists of a supreme court of seven members elected for a term of nine years; four appellate courts with fifteen judges, appointed by the Supreme Court; and a circuit court with sixty-five judges, elected from eighteen judicial districts for terms of six years. In Cook County a criminal court and a supreme court of Cook County (originally the supreme court of Chicago) supplements the work of the circuit court. There are also county courts consisting of one judge who serves for four years. Probate courts have been established in some counties, and in counties of more than 500,000 population are juvenile courts for the trial and care of delinquent children. Local Government. local government of Illinois includes both county and township systems. In those counties of Illinois which were settled by immigrants from the southern states a county system of government was long in force, but the increase of population from the New England and Middle States

introduced the township form of government in the northern counties. At the present time both systems exist in most of the middle and southern counties. A number of cities have adopted the commission form of government, which is authorized by law. Aside from the county judiciary, the county officers include the prosecuting-attorney, sheriff, coroner, clerk of court, county clerk, register of deeds, county treasurer, county surveyor, superintendent of schools, and a superintendent of the poor.

History. The first Europeans to explore the country were French traders and missionaries. In 1675 Father Marquette founded a mission at the Indian town of Kaskaskia, near the present Utica. In 1679 La Salle built in the neighborhood of Lake Peoria a fort, which he called Crevecoeur. After 1682 the French made a number of permanent settlements, which had their origins either in the missions of the Jesuits or the bartering posts of the traders. By the Treaty of Paris of 1763 France ceded to Great Britain her claims to the country between the Ohio and Mississippi Rivers. Owing to Indian resistance the English were not able to take possession until 1765. The Northwest Territory, of which Illinois was a part, was secured to the United States by the Treaty of Paris of 1783. Illinois was a part of Indiana Territory in 1800; was made a separate territory in 1809; and was admitted to the Union as a state in 1818. Black Hawk's War occurred in 1832, and the Mormon troubles culminated in 1844. Slavery existed in the state until 1848. Illinois bore a notable part in the Civil War, contributing 259,000 men to the Union Army, of whom nearly 30,000 were killed in action or died of wounds.

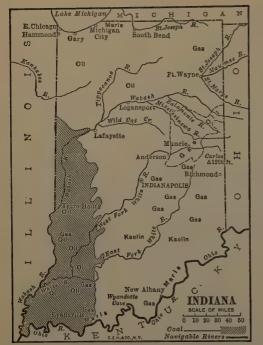
INDIANA

INDIANA, one of the East North-Central States of the American Union, lies between latitudes 37° 45′ and 41° 46′ N., and longitudes 84° 40′ and 87° 34′ W. It is bounded on the N. by Lake Michigan and Mighigan, on the E. by Ohio and Kentucky, on the S. by Kentucky, and on the W. by Illinois. The state has an extreme length from north to south of 276 m., and anaverage width of 140 miles. In area (36,354 sq. m., of which 309 sq. m. are water surface), it ranks thirty-seventh among the states of the Union.

Relief. The state of Indiana lies within the eastern portion of the low plateau which constitutes the northern section of the Mississippi Basin. The greater part of its surface is undulating prairie land, with a slight slope to the west and southwest. The mean elevation of the state is estimated at 700 ft. above sea level. The highest lands are slightly above 1,000 ft., and are found along the Ohio boundary line in east-central Indiana and near the Michigan line in extreme northeastern Indiana. Through the central portion of the state the surface attains an elevation of 700 to 800 feet. Hills increase in frequency from the center of the state to the

south and southeast, and along the Ohio picturesque and rocky hills known as "Knobs," 200–500 ft. high, are almost continuous, with deep gorges and river bottoms between. This southern border of hills is the edge of the Cumberland Plateau physiographic province of the eastern United States. The lowest elevations within the state are found in the western and southwestern counties along the Wabash River, where the surface seldom rises to an altitude of 500 ft. above sea level. In the limestone region of the south there are numerous caves, the most noted being Wyandotte Cave in Crawford County, next to Mammoth Cave the largest in the United States. In the south-central part of the state there are a number of medicinal mineral springs of which the best known are those at West Baden and at French Lick.

Drainage. The principal streams of the state flow in a general southwesterly direction, and the greater part of the state is drained into the Ohio through the Wabash River, and its tributaries. The Wabash, with a total length of more than 500 m., rises in western Ohio, crosses Indiana in a west-southwesterly direction, and



forms for a considerable distance the boundary between Indiana and Illinois. During the seasons of high water it is navigable by river steamboats for about 350 m. of its course. Its upper tributaries are the Salamanie, Mississinewa, Wild Cat Creek, Tippecanoe, and White Rivers. Of these tributaries the White River is by far the most important. Other portions of the state are drained by the Kankakee, a tributary of the Illinois River; the St. Joseph, which flows through the southwest corner of Michigan into Lake Michigan; the St. Mary's and another St. Joseph, which unite in Allen County to form the Maumee, which empties into Lake Erie; and the White Water, which drains a limited area in the southeastern section of the state into the Ohio. All the larger streams within the state are bordered by low alluvial bottoms and by river terraces formed at higher levels.

and by river terraces formed at higher levels. Climate. The climate of Indiana is generally equable, the mean annual temperature being about 52° F., ranging from 49° in the north to 54° in the south. The mean monthly temperature varies from 25° in December and January to 79° in July and August. Cold winds from the region of the Great Lakes frequently cause a fall in temperature to an extreme of -25° in the north and north-central parts of the state. The mean annual rainfall for the entire state is about 43 in., varying from 36 in. in the north to 46 in. in the Ohio Valley.

Agriculture. The soil in the greater part of the state is exceedingly fertile. The north

and north-central portions of the state, formerly rather swampy, are now as productive as the south-central portion. The most fertile part of the state is the Wabash Valley, and the least fertile the sandy region immediately south of Lake Michigan. Agriculture is the chief industry of the state of Indiana. Of the state's total land area 92.3 per cent is in farms, and in only two counties does the percentage fall below 80. The leading crops of the state (in the order of their importance as judged by value) are: corn, wheat, hay and forage, oats, potatoes, and tobacco. By far the most important crop is corn, the value reported for this cereal being nearly three times as great as that of wheat, nearly four times as great as that of hay and forage, and over five times as great as that reported for oats. There are no well defined crop belts, the production of the various crops being general throughout the state, except in the case of potatoes, most of which are raised in the sandy regions of the north. The value of orchard products is large and steadily increasing. Stock-raising is extensively carried on, and dairying and poultry-raising are industries of growing importance.

Minerals. The gas field of Indiana extends over Hancock, Henry, Hamilton, Tipton, Madison, Grand, and Delaware Counties. The petroleum field of the state extends over Adams, Wells, Jay, Blackford, and Grand Counties. The coal fields cover an area of 7,000 sq. miles. They lie in the west and southwest, chiefly in Clay, Vigo, Sullivan, Vermilion, and Greene Counties. The quarries and clay beds are of great value, and are widely distributed throughout the state. Marls adapted to the manufacture of Portland cement are found along the Ohio River and in the lake region in the north.

Manufactures. In 1849 Indiana ranked fourteenth among the states of the Union in the value of its manufactures, while in 1909 it ranked ninth in the same respect. The growth of the state's industries was due largely to its natural resources, consisting of an abundant supply of timber, important agricultural products, and a large yield of petroleum and natural gas. During the past decade the supply of timber, petroleum, and natural gas has fallen off greatly, and some of the productive activities dependent upon these materials show less advance than in previous years. The manufactures of the state as a whole, however, have continued to flourish, lumber having been secured from outside sources to supplement the local supply, while the increasing amount of coal mined in the state has compensated largely for the smaller supply of natural gas, and has stimulated manufacturing in other lines. most important industries (in the order of value of products) are: slaughtering and meat packing, flour-mill and grist-mill products, foundry and machine-shop products, iron and steel products, distilled liquors, automobiles, lumber and timber products, carriages and wagons,

furniture, and refrigerators.

Education. Indiana has a thoroughly organized free public school system under which the supreme administrative control is vested in a state superintendent, elected biennially, and a state board of education; county superintendents, county boards, and township trustees are also elected. In addition to the elementary, graded and high schools, the state makes provision for a state normal school at Terre Haute. There are normal schools at Valparaiso, Angola, Marion, and Danville, and a Teachers College at Indianapolis, which are on the state's "accredited list" and belong to the normal school system. Teachers' institutes are regularly held. The state has established vocational schools and departments, and provides for the presence on the state board of education of three vocational experts. Any city of the first class may establish and maintain a trade school. Night schools are authorized in cities of 3,000 or more. In cities of more than 100,000 schools may arrange with art associations, museums, etc., for art education. All children (including the deaf and blind) are compelled to attend school between the ages of seven and fourteen. Among the institutions for higher education are Indiana University (state), at Bloomington; Purdue University (under state control), at Lafayette; Vincennes; University (non-sectarian), at Vincennes; De Pauw University (Methodist Episcopal), at Greencastle; Notre Dame University (Roman Catholic), at South Bend; Earlham College (Friends), at Earlham; Wabash College (nonsectarian), at Crawfordsville; Concordia College (Lutheran), at Fort Wayne; Butler College (Christian), at Indianapolis; Hanover College (Presbyterian), at Hanover; Franklin College (Baptist), at Franklin; and Rose Polytechnic Institute (non-sectarian), at Terre Haute.

Indiana is governed under Government. the constitution adopted in 1852, and its amendments. Entitled to the suffrage are all male citizens twenty-one years of age and upward who have lived in Indiana for six months immediately preceding the election; and all foreignborn males of the requisite age who have lived in the United States for one year and in Indiana for six months immediately preceding the elec-tion, and who have declared their intention of becoming citizens of the United States. general assembly has the power to deprive of the suffrage any person convicted of an infamous EXECUTIVE. The executive officers include the governor and lieutenant-governor, clerk of the supreme court, secretary of state, attorney-general, auditor, treasurer, superintendent of public instruction, a state commissioner of weights and measures, and a state food and drug commissioner. The governor and lieutenant-governor (who must be at least thirty years of age), as well as the clerk of the supreme court, are chosen in presidential years for a term of four years. The other state officers are elected

every two years. LEGISLATIVE. The state legislature, known as the General Assembly. meets at Indianapolis biennially, (odd number years), its session being limited to 61 days. It consists of a Senate (members of which must be at least twenty-five years of age), and a House of Representatives (members of which must be at least twenty-one years of age), who are elected for terms of two years. JUDICIARY. The judiciary consists of a supreme court of five members elected for districts by the state at large for a term of six years, an appellate court, and a system of circuit and minor criminal and county courts. LOCAL GOVERNMENT. There is a legislative body in every township and county of the state. All cities are divided into five classes according to population, the powers being concentrated and simplified by degrees in the case of the smaller cities, and attaining a maximum of separation and completeness in class 1, i. e., cities of 100,000 and over, which includes only Indianapolis. In all classes the executive officer is a mayor elected for four years and ineligible to succeed himself. There are six administrative departments (in the smaller cities several departments may be combined under one head)—departments of public works, public safety, public health and charities, law, finance, and collection and assessment. There is a city court with elected judge or judges, and an elected common council which can pass legislation over the mayor's veto by a two-thirds vote. Communities under 2,500 in population are regarded as towns and have a separate form of government by a board of trustees.

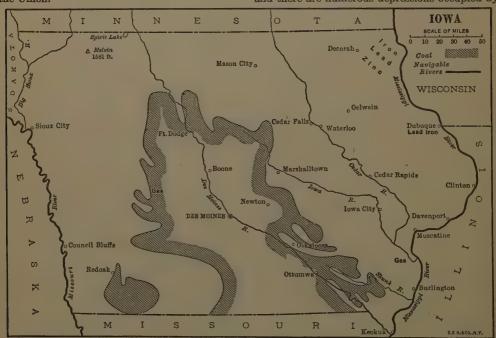
History. Extensive remains (in the form of mounds and fortifications) of the prehistoric inhabitants of Indiana are found in several parts of the state, but are especially numerous in Knox and Sullivan Counties. The first Europeans to enter the state found it occupied chiefly by the tribes of the Miami Confederacy, a league of Algonquin Indians formed to oppose the advance of the Iroquois. French courseurs des bois and Jesuit missionaries were probably the first white men to visit the state. La Salle, the explorer, undoubtedly passed through parts of Indiana during his journeys of 1669 and the succeeding years. Vincennes, founded in 1731, was the first permanent white settlement. other settlement was made until after the War of Independence. Indiana was a part of the Northwest Territory which passed under the control of the United States in 1779, and an American settlement was made at Clarksville in 1784. As a part of the Northwest Territory, it was governed under the Ordinance of 1787. Indiana assumed its present limits in 1809, when it was organized as a territory. Indian wars were frequent throughout the early days of its history. In 1810 began the last great Indian war in Indiana, which ended in November, 1811, with the battle of Tippecanoe (the present Battle Ground), when General William Henry Harrison

defeated the confederated Indians under Tecumseh. After the close of the War of 1812, the population of the territory increased rapidly and it was admitted to statehood in December, 1816. Slavery existed to a limited extent until 1830. During the Civil War Indiana bore a prominent and creditable part on the side of the Union.

IOWA

IOWA, a West North-Central State of the United States, is situated between latitudes 40° 36′ and '43° 30′ N., and longitudes 90° 10′ and 96° 37′ W. The state is bounded on the N. by North Dakota and Minnesota; on the E. by Wisconsin and Illinois, from which states it is separated by the Mississippi River; on the S. by Missouri; and on the W. by Nebraska and South Dakota. Iowa has a gross area of 56,147 sq. m., of which 561 sq. m. represent water surface. It ranks twenty-fourth in size among the states of the Union.

Sioux and the Missouri. The average elevation of the state is about 900 ft. above sea level. Keokuk in the extreme southeast, the lowest point in the state, is 450 ft. above the sea, while in the northwest, in O'Brien and Dickinson Counties, are elevations ranging from 1,000 to over 1,600 ft. above the sea. In the southern half of the state there are no marked hills, and the undulations are long and wave-like. The surface in the northern half is more broken and irregular, the elevations are generally rounded, and there are numerous depressions occupied by



Relief. The entire state of Iowa lies within the northern portion of the low plateau which constitutes the upper part of the Mississippi drainage basin. A broad, elevated belt, which forms the main water parting of the state, extends from Spirit Lake on the northern border, due south, to within 60 m. of the southern border, and thence southeast to Wayne county in the south-central part of the state. For the most part, the surface is that of a prairie tableland, moderately rolling, and with a general but almost imperceptible slope from the crest of the water parting southeast to the Mississippi, and on the west of the water parting to the Big

small shallow lakes or ponds. In the northeastern part of the state, in what is known as the "driftless area," the surface is much more varied, elevations are more marked, and the rivers in many places flow between high cliffs from 250–400 ft. above their surface. The largest streams have many tributaries and follow circuitous courses. This part of Iowa is a region of great charm, with much picturesque scenery. Along the Missouri and some of its tributaries, southward from the mouth of the Big Sioux River, are mound-like bluffs which rise abruptly from the flood plain of the Missouri to a height varying from 100–300 feet.

Drainage. The eastern two-thirds of the state is drained wholly by tributaries of the Mississippi, of which the Des Moines, the Skunk, the Iowa with its tributary the Cedar, and the Wapsipinicon are the largest. streams have long easy courses through valleys broad at their sources, but becoming narrower and deeper towards their mouths. The rivers of the western slope of Iowa are short streams flowing quite rapidly over muddy beds through much of their courses, and in the bluff belt along the Missouri having steep but grassy banks 200 ft. or more in height. The Big Sioux, which rises in South Dakota, in the lower part of its course forms the boundary between South Dakota and Iowa and enters the Missouri River about 2 m. above Sioux City. A few of the rivers of Iowa have a limited importance as navigable streams, and many of them afford water power at their falls. The principal lakes are found in the northern part of the state. among them being Spirit Lake, Lake Okoboji, Clear, Swan, High, Butler, and Storm Lakes. Several of the lakes, known as the Walled Lakes, are remarkable because surrounded by natural walls of loose stones.

Climate. The climate is continental, with cold winters, hot summers, and sudden changes of temperature. The mean annual temperature is about 47° F.; the greatest extremes recorded are from -43° in 1888 to 113° in 1901, a difference of 156° F. The average mean annual temperature in the northeastern corner of the state is 44.3°, while at Keokuk in the southeastern corner it is about 52° F. The autumns are beautiful and of long duration, and Iowa is noted for its healthfulness. The prevailing wind of winter is northwest, that of summer is frequently southeast. The mean annual precipitation is about 32 in., the principal rainfall being during the six months from the 1st of April to the 1st of October. The precipitation is in general less in the western part of the state

than in the eastern.

Agriculture. The soils are mainly dark brown to almost black clay loams, silt loams, and loams, with a small amount of sandy loams in scattered areas. With few exceptions these soils are deep, fertile, and well supplied with organic matter. The depth and the porous nature of the soil make it capable of withstanding the extremes of wet and dry remarkably well, and taken as a whole, no other state in the Union is more favored for agricultural exploitation. No other state has so many acres of improved land or so large a proportion of its land subject to cultivation. All of the staple crops of northern climates may be grown within the state. It is also well adapted to the raising of

of northern climates may be grown within the state. It is also well adapted to the raising of hogs, horses, dairy cows, and poultry. The leading crops of the state (in the order of importance as judged by value) are: corn, hay and forage, oats, wheat, potatoes, barley, and timothy-seed. Orchard fruits and small fruits are growp successfully.

Forests. At the time of its first settlement about one-fifth of the area of Iowa was covered by forest, but everywhere now most of the merchantable timber has been cut. The former forests of the state were of two general classes: on the bottom lands along the rivers grew cotton-wood, willow, honey-locust, coffee-trees, black ash, and elm; on the less heavily wooded belts were hemlock, white and green ash, butternut, iron-wood, and holly berry. The growth was heavier in the east than in the west.

Minerals. By far the most valuable mineral product of the state is bituminous coal, the productive coal fields having an area of about 10,000 sq. miles. Lead and iron are found in small quantities; gypsum and ochre are worked; and mineral waters are sold. Sandstone and limestone are produced, as are also clays for the making of bricks, tiles, and

pottery.

Manufactures. Iowa is preeminently an agricultural state, and its manufactures are chiefly those that have to do with the products of the farm. Meat packing is the most important industry, and next in importance is the manufacture of dairy products—butter, cheese, and condensed milk. The industries connected with foundry and machine-shops occupy a third place—turning out gas machines and meters, hardware, plumbers' supplies, steam fittings, heating apparatus, and structural iron work. The manufacture of flour- and grist-mill products is fourth in importance. Among the minor manufactures are those of lumber and timber products, most of the raw material being floated down on rafts from Wisconsin and Minnesota; and the printing and publishing of newspapers,

books, music, and periodicals.

Education. Iowa has a lower percentage in illiteracy than any other state in the Union, a fact which is largely owing to her excellent public school system. School attendance is compulsory for sixteen consecutive weeks annually, during the ages from seven to fourteen. public school system includes elementary, graded, and high schools; normal schools for the training of teachers; and the State University at Iowa City. At the head of the whole system is the state superintendent of public instruction, assisted by a board of educational examiners. County administration of schools is in the hands of a board of education and a superintendent. In each school district matters are attended to chiefly by an elected board of directors. Educational institutions not supported by the state include: Iowa Wesleyan University (Methodist), at Mt. Pleasant; Iowa College (Congregationalist), at Grinnell; Central University of Iowa (Baptist) at Pella; Cornell College (Methodist), at Mt. Vernon; Western College (United Brethren), at Toledo; Upper Iowa University (Methodist Episcopal), at Fayette; Leander-Clark College (United Brethren), at Toledo; Lenox College (Presbyterian), at Hopkinton; Luther College (Norwegian Evangelical Lutheran), at Decorah; Des Moines College (Baptist),

at Des Moines; and many others.

Government. Iowa is governed under the constitution adopted in 1857 and its amend-Suffrage belongs to all male citizens of the United States of at least twenty-one years of age, who shall have resided in the state for six months, and in some one county for sixty days preceding an election, except idiots and persons insane or convicted of some infamous crime. "Women may vote at all school elec-tions, and in municipal elections upon any proposition to vote appointments or increase tax levies." Executive. The central executive and administrative authority is vested in a governor, lieutenant-governor, an executive council, auditor, treasurer, attorney-general, a state superintendent of public instruction, and several boards, all elected for two years; also three railroad commissioners, elected for terms of four years. The law requires that the governor and lieutenant-governor shall be at least thirty years of age, and shall have been for two years immediately before their election, residents of the state. The governor is much restricted in his appointing power, and his veto may be overridden by a two-thirds vote of both houses of the legislature. Members of boards of regents or trustees of state institutions are, for the most part, elected by the General Assembly. The few appointments which the governor may make are subject to the recommendation or approval of the executive council, a branch of the legislature, or of some board. The executive council is composed of the governor, secretary of state, state auditor, and state treasurer, all elected by the people for a term of two years. It has extensive powers: supervises and audits the accounts of the state departments, directs the taking of the census, transfers cities from one class to another in accordance with census returns, constitutes the board for canvassing election returns, and classifies and assesses railways and other companies, etc., etc. Legislative. The state legislature, or General Assembly, composed of a Senate and a House of Representatives, meets at Des Moines biennially (odd number years), its session being unrestricted as to length. Senators are elected for a term of four years, one from each of fifty senatorial districts, the term of one-half expiring every two years. A senator must be at least twenty-five years of age, and a resident of the state for one year at the time of election. Representatives are elected for a term of two years, one from each county, with an additional one from each of the counties (not exceeding nine) having the largest population; the ratio of representation and the apportionment of the additional representatives from the larger counties is fixed by the General Assembly. The qualifications for representatives differ from those of elector only in that they must have been residents in the state for one year at the time of election. JUDICIARY. The state judiciary consists of a supreme court of seven judges, elected for a term of six years, and twenty-one district courts having fifty-nine judges (from one to four in each district), elected for terms of four years. Local Govern-MENT. For purposes of administration and local government the state is divided into counties, each of which is itself divided into townships that are usually six miles square. township may be divided into school districts and highway districts, but in these matters there is irregularity. Each county has its own administrative, boards and officers, and there are two justices of the peace, and two constables for every township. The board of supervisors, elected for a term of three years, has care of the county property and the management of all county business. The officers of the township are three trustees (elected for a term of three years), a clerk and an assessor (elected for two years). Municipal corporations are divided into cities of the first class (population of 15,000 or over), cities of the second class (population of 2-15,000), and towns, besides a few cities with special charters. All other municipal corporations, except cities with special charters, are known as incorporated towns. The municipal officers are a mayor, council, a police judge in cities of the first class, and various other officers. Cities with a population of 25,000 or more may adopt a commission form of government, with a mayor and four councilmen, elected at large on a non-partisan ticket.

History. The first white men to visit Iowa were the Frenchmen, Marquette and Joliet, in 1673, and Hennepin in 1680. They found the country occupied by a tribe of Siouan Indians from which came the name of the state, Iowa (meaning "sleepy ones"). As a part of the Louisiana Purchase of 1803, the territory became the property of the United States. From 1804-'05, as a part of the District of Louisiana, it was under the government of Indiana Territory; from 1805-'12 it was a part of Louisiana Territory; from 1812-'21 a part of Missouri Territory; from 1821-'34, a part of the unorganized territory of the United States; from 1834-'36 a part of Michigan Territory; and from 1836-'38 a part of Wisconsin Territory. In 1838, the western portion of Wisconsin Territory was set apart and named Iowa, and out of this the state with its present bounds was carved in 1846.

KANSAS

KANSAS (the "Sunflower" state), a West North-Central State of the United States, lies between latitudes 37° and 40° N., and longitudes 94° 35′ and 102° 1′ 40″ W. It is bounded on the N. by Nebraska; on the E. by Missouri; on the S. by Oklahoma; and on the W. by Colorado. The state is nearly rectangular in shape, with a breadth from north to south of about 200

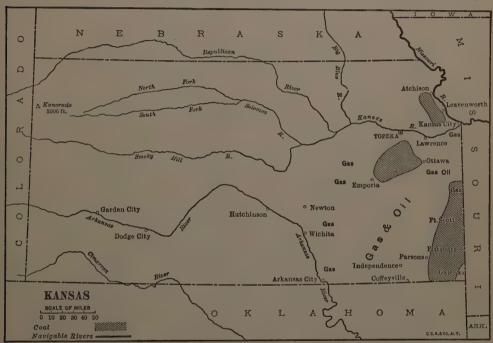
m., and a length from east to west of slightly over 400 miles. In gross area it ranks thirteenth among the states in the Union (82,158 sq. m., of which 384 sq. m. represent water

surface).

Relief. Kansas may be regarded as a great undulating plain with a very gentle slope from west to east. Along the western boundary the surface has an elevation of from 3,500 to 4,000 ft., while along the eastern boundary, the average elevation is 850 ft. above sea level. The slope from west to east is thus about 7½ ft. to the mile, and about one-half of the state lies at an elevation of less than 2,000 ft. above sea

boundless as upon the sea. In the northwest the surface is distinctly hilly, and in the southwest, below the Arkansas River, is an area of sand hills.

Drainage. The Missouri River, forming the northeastern boundary, receives the drainage of the northern half of the state, chiefly through the Kansas River. The Kansas is formed by the union of the Solomon and Smoky Hill Rivers, about twelve miles west of Abilene, and enters the Missouri at the eastern boundary within the limits of Kansas City, Kansas. The Kansas, with the Smoky Hill River, traverses the entire state from west to east, among its



level. In the eastern half of the state there is also an inclination from north to south, as indicated by the northwest-southeast course of the streams, the only exception being the Kansas River, which flows nearly due east. The eastern third of the state lies in the Prairie Plains province, the remainder of the state in the Great Plains province. A small portion in the southeastern part of the state is invaded by the low hills of the Ozark uplift. Along the Missouri, in the northeast, the bluffs rise in places to a height of 200 feet. The Prairie Plains, while gently rolling, are diversified by low hills and ridges and the valleys of countless streams. The Great Plains present a vast surface of moderate yet varied relief—an endless succession of broad plains, isolated hills, and ridges. The view from every little eminence is almost as

chief tributaries being the Republican and Big Blue Rivers. The Arkansas traverses the great treeless plains of western Kansas, and near the middle of the state changes its course to the southeast and crosses the southern boundary into Oklahoma. Of its large affluents, the Cimarron drains the southwestern corner of the state, and the Neosho the southeastern part. A number of smaller streams of the state afford advantages for the development of water power.

Climate. The climate is subject to extremes of heat and cold, but as a rule is exceptionally salubrious. The average annual temperature of the state is about 54.5° F., the warmest mean being 56° and the coldest 53° F. The winters are dry and mild, and summer heat is tempered by perpetual prairie breezes. In the eastern half of Kansas the rainfall is sufficient for the

maturing of crops, the normal annual precipitation ranging from 25 to 35 inches; in the western half of the state the rainfall is lighter, the average annual precipitation ranging from 15 to 25 inches. The precipitation is very largely in the growing season between April and October. Freshets and droughts and occasional tornadoes at times work havoc. Winds are prevalently from the south, except in winter, when they blow from

the northwest. Agriculture. The soil of the Upland Prairies is generally a deep, rich, clay loam; the bottom lands near the streams are a black, sandy loam; and the intermediate lands show a rich and deep black loam containing very little sand. These soils are all free from stones, easily cultivated, and exceedingly productive. In limited areas on the Upland Prairies are stiff, clay soils, which, while not easily cultivated, are very productive when properly managed and enriched. The southwestern portion of the state is sandy. Irrigation is practised in the stream valleys of the western part of the state, principally along the Arkansas River for 75 m. east from the Colorado line. Of the state's entire land area, nearly 83 per cent is in farms. In both acreage and value, corn is the leading Wheat has an acreage about threequarters as great as that of corn, and a value nearly as great. These two crops combined represent about 90 per cent of the acreage of all cereals. The other important agricultural crops (in the order of their value) are: hay and forage, oats, potatoes, Kafir corn, and milo maize. Cotton-growing, on a very limited scale, is being attempted in the southeast. Various orchard fruits are cultivated. Kansas is one of the leading stock-raising states of the country, and it has extensive dairying and poultry interests.

Forests. The original timber land did not cover more than 5 per cent of the state's area, but a judicious system of planting has considerably increased the extent of woodland. Along the streams there is commonly a fringe of timber, which in the east is fairly heavy, but there is an increasing scarcity westward. Many of the cities of the state are abundantly and beauti-Oaks, elms, hickory, honeyfully shaded. locust, white ash, sycamore, and willows are growing, but the box-elder and cotton-wood are the prevailing trees. The United States government is planting trees in reserves in the arid counties of the state, and the experiment promises success. A National Forest of over 300,000 acres has been set aside in Finney, Kearney, Hamilton, and Grant Counties.

Minerals. The mineral products of Kansas include bituminous coal, petroleum, natural gas, salt, zinc, lead, and sandstone, limestone, and gypsum. The coal fields cover about 15,000 sq. m. in the eastern part of the state. In the value of the natural gas product, Kansas is surpassed only by Pennsylvania, West Virginia, and Ohio. The principal gas and oil fields are in the southeastern part of the state.

Manufactures. Kansas is not preëminently a manufacturing state. Its manufactures have been largely the outgrowth of its extensive agricultural resources, and in recent years they have been greatly stimulated by the development of rich zinc and coal mines, and by the discovery of oil and gas. The most important industry in the state is slaughtering and meat packing; it includes the manufacturing of many byproducts, some of which are carried to a high degree of elaboration. Second in importance are flour-milling and grist-milling. Next in order are general shop construction and the manufacture of cars by steam railroad companies, smelting and refining, and printing and publishing.

Education. An efficient compulsory education law was passed in 1903. The public schools of the state are administered by a state board of education. Seven months is the minimum term for rural schools, and eight for schools in cities of the first and second class. Besides the elementary and high schools, the state maintains three public normal schools; the University of Kansas, at Lawrence; an Agricultural College, at Manhattan; the Western University (for negroes), at Quindaro; and the Topeka Industrial and Educational Institute (also for negroes). In addition to the state schools numerous private or denominational institutions are main-The most important of these are: the Kansas-Wesleyan University (Methodist Episcopal), at Salina; Baker University (Methodist Episcopal), at Baldwin; Washburn College (Congregational), at Topeka; Southwest Kansas College (Methodist Episcopal), at Winfield; the College of Emporia (Presbyterian), at Emporia; Bethany College (Lutheran), at Lindsborg; St. Marys College (Roman Catholic), at St. Marys; Ottawa University (Baptist), at Ottawa; and the College of the Sisters of Bethany (Protestant Episcopal, for women), at Topeka. An industrial school for Indian children is maintained by the United States near Lawrence.

Government. Kansas is governed under the constitution (adopted in 1859) which came into operation in 1861, and its amendments. Suffrage is the right of both male and female citizens of the United States (and of aliens who declare their intention to become such) who have lived in the state for six months, in the county for thirty days, and in the precinct for ten days previous to election. Excluded from the suffrage are those convicted of treason or felony, insane persons, and persons under guardianship; also public embezzlers, persons guilty of bribery, or dishonorably discharged soldiers of the United States service, unless re-General elections to state, county, and township offices are biennial in even number years, and take place on the first Tuesday after the first Monday in November. Execu-TIVE. The state executive officers are a governor, lieutenant-governor, secretary of state, auditor, treasurer, attorney, and superintendent of public

instruction, all elected for a term of two years. The governor appoints, with the approval of the Senate, a board of public works, and some other administrative boards. He may veto any act of the legislature, which cannot thereafter become a law unless again approved by two-thirds of the members elected to each house. Legislative. The legislature, consisting of a Senate and House of Representatives, meets in regular session at Topeka, on the second Tuesday in January in odd number years; its sessions are not restricted as to length. Senators are elected for four years, and representatives for two years. Judicial power is vested in a supreme court, thirty-eight district courts, one probate court for each county, and two or more justices of the peace for each township. All justices are elected: those of the supreme court, seven in number, for four years; and those of the probate courts, and the justices of the peace, for two years. Local Government. The business of each county is managed by a board of commissioners who are elected by districts for four years, but each county elects also a clerk, a treasurer, a probate judge, a register of deeds, a sheriff, a coroner, an attorney, a clerk of the, district court, a surveyor, a county auditor appointed by the district clerk of the county. The township officers, all elected for two years, are a trustee, a clerk, a treasurer, two or more justices of the peace, two constables, and one road overseer for each road district. Cities are governed

under a general law which divides them into three classes according to size, and the government is different for each class. Cities having a population of more than 15,000 constitute the first class; those having a population of more than 2,000, but not more than 15,000, constitute the second class; and those having a population not exceeding 2,000 constitute the third class. In cities of the first class, the law requires the election of a mayor, city clerk, city treasurer, appeals judge, and councilmen; in those of the second class, it requires the election of a mayor, appeals judge, city treasurer, councilmen, board of education, justices of the peace, and constables; and in those of the third class, it requires the election of mayor, appeals judge, and councilmen.

History. Kansas was a part of the Louisiana purchase (1803), and was colonized by both free and slave state settlers. It was made a territory in 1854, and at once became the battle-ground between the partisans of slavery and freedom. A bloody civil war broke out, in which many fights that were almost battles took place One of the most ardent of the anti-slavery partisans was John Brown. The Topeka constitution prohibiting slavery was framed in 1855, and the Lecompton constitution sanctioning slavery in 1857. The Wyandotte constitution forbidding slavery was adopted in 1859, and Kansas was admitted as a free state January 29, 1861. It took a prominent part in the Civil War, and

suffered much from raids.

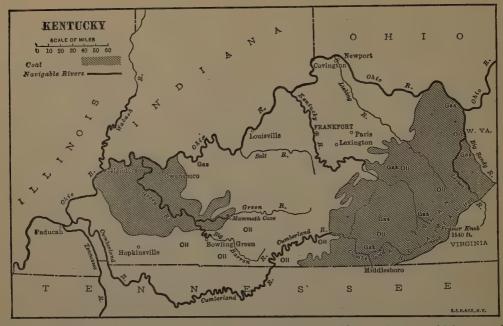
KENTICKY

KENTUCKY, one of the East South-Central States of the Union, lies between latitudes 36° 30' and 39° 12' N., and longitudes 81° 55' and 89° 40' W. It is bounded on the N., NW., and NE. by Illinois, Indiana, and Ohio; on the E. by West Virginia and Virginia; on the SE. and S. by Virginia and Tennessee; and on the W. by Missouri and Illinois. The state has an extreme length from E. to W. of about 400 m., and a width from N. to S. of 175 m. In area, Kentucky ranks thirty-sixth among the states of the Union (40,598 sq. m., of which 417 sq.

m. are water surface).

The surface of Kentucky falls into three main physiographic regions: the mountain belt of the east and southeast; the plateau region extending from the mountain belt to the Tennessee River; and, lying west of that river, a small area which belongs to the Gulf Coastal The mountain belt, strictly speaking, comprises only the Cumberland and Pine Mountain ranges in the extreme southeastern part of the state. These ranges have altitudes of from 1,000 to 1,500 ft. and more, the highest point being Frazier knob (1,540 ft.), in Letcher County on the Virginia border. With the exception of the narrow mountain area just described, the eastern quarter of the state, coextensive with the eastern Kentucky coal field,

belongs to the Alleghany Plateau Province. This plateau belt is exceedingly rugged, with many sharp ridges—seldom rising more than 1,500 ft. above the sea—which alternate with deep, narrow valleys. The remainder of the state, which lies east of the Tennessee River, is divided into the Highland Rim Plateau, and a lowland basin eroded in the Highland Rim Plateau and known as the Blue-Grass Region; this region reaches northward to the Ohio River and is separated from the Highland Rim Plateau by a semicircular escarpment, which extends from the mouth of the Scioto River to the mouth of the Salt River below Louisville. The Highland Rim Plateau embraces fully one-half of the state, and slopes from elevations of 1,000 ft. or more in the east to about 500 ft. in the northwest—and generally much less. The Blue-Grass Region is park-like in character, and marked by gently rounded hills and intervening valleys. Its soils are strong and fertile, and the blue-grass (from the color of whose seed-vessels the region takes its name) is native to the soil. The streams have cut deep gorges through the limestone formations of a large part of the Highland Rim Plateau, and in a region of about 6,000 sq. m. much of the drainage is subterranean. long continued erosive action of the water has undermined a large part of this region and pro-



duced numerous and often extensive caverns, the best known being Mammoth Cave. The lowland region which lies west of the Tennessee River has an average elevation of less than 300 feet. The surface is generally low and level, and large cypress swamps still exist in the southwest.

The extent of the navigable Drainage. waters of Kentucky is placed at about 3,000 Most of the larger rivers of the state have their sources among the Appalachian Mountains or on the Alleghany Plateau, and flow in a generally northwest direction toward the Ohio. Deep river channels are common, but falls or impassable rapids are rare west of the Alleghany Plateau. The principal rivers wholly within the state are: the Licking, Kentucky, Green, and Tradewater. The Cumberland rises in the Cumberland Mountains in southeastern Kentucky, and after a tortuous, general southwesterly and westerly course to Nashville, Tennessee, turns northwestward and, crossing Kentucky not far from the lower course of the Tennessee, enters the Ohio River at Smithland. The Tennessee River forms part of the eastern boundary of Calloway County, enters the state on the southwestern border of Trigg County, and, flowing in a general northwesterly direction, enters the Ohio River at Paducah.

Climate. Kentucky has a fine, salubrious climate and extremes of temperature are not marked. The mean annual temperature for the entire state is nearly 55° F., that of the mountain belt in the SE. being 50°, and that of the region west of the Tennessee, about 60°; the

thermometer seldom registers as high as 100° or as low as -10° F. The mean annual precipitation is about 43 in. for the entire state; it is usually distributed evenly throughout the year, and very little is in the form of snow. The prevailing winds are from the west or southwest; rain-bearing winds are mostly from the south.

Agriculture. In the extreme eastern portion of the state, on the mountains and on the Alleghany Plateau, much of the soil is very light and thin. The more level tops of the plateau, however, are cultivated and produce fair crops. Within the mountainous portion of southeastern Kentucky there are a number of small limestone valleys of considerable fertility; in the Blue-Grass Region in the north-central portion of the state the soils are strong and fertile, and the most exhaustive crops, such as tobacco and hemp, may be raised continuously for a series of years without materially affecting the value of the soil. The south-central part of the state comprises one of the great tobacco-growing regions of the United States. The total farm acreage and the acreage of improved land are both increasing, as are also the number of farms. The general character of Kentucky agriculture is indicated by the fact that somewhat more than two-fifths (43.7 per cent) of the total value of crops is contributed by the cereals, and somewhat more than one-quarter (28.7 per cent) by The remainder, representing 27.6 per cent of the total, consists mostly of potatoes and other vegetables, hay and forage, forest products, and fruits and nuts. The leading crops (in the order of their importance as judged by value) are: corn, tobacco, hay and forage, wheat, and potatoes. The state ranks first in the production of tobacco, and it is the principal hemp-growing state in the Union. The Blue-Grass Region is one of the most famous horse-breeding sections in America, and the thorough-bred Kentucky horse has a world-wide reputation. Its other live-stock interests are important.

Forests. The state is rich in oak, maple, ash, beech, walnut, and pine, and its lumber industries are extensive. Logging is the principal industry of several localities, especially in the

east.

Minerals. Kentucky has two extensive coal fields, an eastern and a western. The eastern coal field lies, for the most part, in Greenup, Boyd, Carter, Lawrence, Johnson, Lee, Breathitt, Rockcastle, Pulaski, Laurel, Knox, Bell, and Whitley Counties, and has an area of about 11,000 square miles; the western coal field is in Henderson, Union, Webster, Daviess, Hancock, McLean, Ohio, Hopkins, Butler, Muhlenburg, and Christian Counties, and has an area of about 6,000 square miles. All Kentucky coal is either bituminous or semi-bituminous, but of several varieties. Kentucky is the largest producer of cannel coal in the United States. Among the other mineral resources of the state are: petroleum, iron ore, lead, barites, lime, natural cement, asphalt, natural gas, and mineral waters. The quarries yield sandstone and limestone, and the clay deposits are valuable for the manufacture of bricks, tile, pottery, etc. Pearls are found in some of the streams of the state, and it is believed that there are diamonds in the kimberlite deposits in Elliot County.

Manufactures. The value of the manufactured products of Kentucky has steadily increased since 1849-50. The most important industries (arranged in the order of value of products) are: distilled liquors, flour-mill and grist-mill products, lumber and timber products, tobacco manufactures, foundry and machine shop products, iron and steel products, and

slaughtering and meat-packing.

Education. School attendance is compulsory for children between the ages of seven and twelve years, unless excused by the county board of education on account of illness. The public schools of Kentucky may be classified as rural schools, graded schools, and high schools (the latter being further classified as city and county high schools). Each county is divided into four, six, or eight educational divisions, one trustee being elected for each sub-district. trustees of the sub-districts form division boards of education, and the chairmen of these various division boards form a county board of education together with the county superintendent who is ex officio chairman. Any sub-district, town, or city of the fifth or sixth class may provide for a graded school by voting the necessary taxes to support the same. The General Assembly has provided special graded schools. In each city of the first, second, and third class

there must be, and of the fourth class there may be, maintained under control of a city board of education a system of public schools in which all children between the ages of six and twenty residing in the city may be taught at public expense. It is provided by statute that there shall be in each county of the state at least one county high school to which all common school graduates of the county shall be admitted without charge. There are separate schools for white and blacks. Schools for higher education are: the State University of Kentucky, at Lexington; two State Normal Schools, one at Richmond and the other at Bowling Green; and a Normal and Industrial School (for negroes), at Frankfort. Among the private and de-nominational colleges in Kentucky are: Central University (Presbyterian), at Danville; Transylvania University, at Lexington; Georgetown College (Baptist), at Georgetown; Kentucky Wesleyan College (Methodist Episcopal, South), at Winchester; Berea College (Non-Sectarian), at Berea; and the University of Louisville, at Louisville.

Government. Kentucky is governed under a constitution adopted in 1891. With the usual exceptions of criminals, idiots, and insane persons, all male citizens of the United States who are at least twenty-one years of age, and have lived in the state one year, in the county six months, and in the voting precinct sixty days next preceding the election, are entitled to vote. Women are allowed to vote for school officers and on school matters, and may hold school offices—except those limited to men by the constitution. Executive. The executive officers of the state are: governor, lieutenant-governor, treasurer, auditor of public accounts, register of the land office, commissioner of agriculture, labor and statistics, secretary of state, attorney general, and superintendent of public instruction. All are chosen by popular vote for four years, and are ineligible for immediate reëlection; each must be at least thirty years of age and must have been a resident citizen of the state for two years next preceding his election. If a vacancy occurs in the office of governor during the first two years, a new election is held; if it occurs during the last two years, the lieutenantgovernor serves out the time. The governor may veto any measure, including items in appropriation bills, but the legislature can re-pass such a measure by a simple majority of the total membership in each house. The governor is commander-in-chief of the militia when it is not in the service of the United States. He may remit fines and forfeitures, commute sentences, and grant reprieves and pardons, except in cases of impeachment, and he may call extraordinary sessions of the legislature. LEGISLA-The legislative power is vested in a General Assembly, which consists of a Senate and a House of Representatives. It meets biennially at Frankfort (even number years), the session being limited to 60 days. Senators are

elected for four years, half the number retiring every two years. Representatives are elected for two years. The minimum age for representa-tive is twenty-four, and for a senator thirty years. The Senate sits as a court for the trial of impeachment cases. A majority of either house constitutes a quorum; but as regards minor bills on the third reading, not only must they receive a majority of the quorum but that majority must be at least two-fifths of the total membership of the house. For the enactment of appropriation bills creating a debt, a majority of the total membership in each house is required. A revenue measure must originate in the House of Representatives, but the Senate may introduce amendments. JUDICIARY. The judiciary consists of a court of appeals, circuit courts, quarterly courts, county courts, justice of the peace courts, police courts, and fiscal courts. The court of appeals is composed of from five to seven judges, elected, one from each appellate district, for a term of eight years.

Local Government. The counties are grouped into judicial circuits, those containing a population of more than 150,000 constituting separate districts: each district has a judge and commonwealth attorney. The county officials are: judge,

clerk, attorney, sheriff, jailer, coroner, assessor, all elected for four years. Each county contains from three to eight justices of the peace districts. The financial board of the county is composed of the county judge and the justices of the peace, or of the county judge and three commissioners elected on a general ticket. The municipalities are divided into six classes, according to population.

History. Numerous historic remains indicate that the mound-builders lived in the territory now comprising this state. The name Kentucky, meaning "dark and bloody ground," commemorates the conflicts between various warlike tribes of Indians. Kentucky was explored by Dr. Thomas Walker in 1750, by John Finley in 1767 and by Daniel Boone in 1769; was settled at Harrodsburg in 1774; was formed into a county of Virginia in 1776; was admitted into the Union in 1792 (the first state to enter after the formation of the Union); was distinguished in the War of 1812 and in the Mexican War; was one of the slave states, but did not secede during the Civil War; was occupied by Federals and Confederates in 1861; and was the scene of several famous campaigns and raids.

LOUISIANA

LOUISIANA, a West South-Central State of the Union, lies between latitudes 29° and 33° N., and longitudes 89° and 94.5° W. It is bounded on the N. by Arkansas and Mississippi; on the E. by Mississippi and the Gulf of Mexico; on the S. by the Gulf of Mexico; and on the W. by Texas. The state extends from north to south about 200 m., and from east to west about 290 miles. In gross area (48,506 sq. m., of which 3,097 sq. m. are water surface) it ranks as thirtieth among the states of the Union

Relief. Louisiana lies in the Coastal Plains Province, and is divided nearly equally between alluvial lands and uplands. The mean elevation above sea level is 75 ft., and practically the only parts more than 400 ft. high are hills in Sabine, Claiborne, and Vernon Parishes. The upland region embraces all the northern and northeastern parts of the state. It is in reality a low plateau sloping southward and traversed by the valleys of the Mississippi, Red, and Ouachita Rivers, and dissected by smaller streams into numerous smaller plateaus. South of the Red River is the prairie area constituting the greater part of the southwestern corner of the state. Here the elevation is usually only 20-30 ft. above the sea, never above 70 ft.; and the region is generally treeless, except for marginal timber along the streams. Finally, the prairie region is merged into a belt of wooded swamp and marsh, which extends along the entire gulf coast, reaching inland for distances of from 20 to 50 miles. In places the marsh lands are open, flooded only at high tides or in rainy seasons, and afford pasturage for cattle. Large tracts have been diked and reclaimed for cotton, sugar, and rice culture. Slight ridges along the streams and bayous which traverse it, and occasional patches of slightly elevated prairie, relieve the monotonous expanse. Most of the swamp fringe is reclaimable. The marshes encroach most upon the parishes St. Charles, Orleans and Plaquemines. The alluvial lands include the river flood plains.

Drainage. The principal rivers are the Mississippi, which forms part of the eastern boundary and flows through the southeastern part of the state; the Red River, the southernmost of the great tributaries of the Mississippi, which it enters in about latitude 31° N.; the Ouachita (or Washita), which empties into the Red River about 15 m. northwest of the confluence of the latter with the Mississippi; the Sabine River, which forms more than two-thirds of the western boundary; and the Pearl, which forms part of the eastern boundary and empties into Mis-sissippi Sound. All these rivers except the last are navigable at all stages of the water. There are many bayous, several of which are important both for navigation and for drainage. Among them are Bayou Teche, Bayou Plaquemine, Atchafalaya Bayou, Bayou Lafourche, and Bayou Boeuf. Some of the bayous might well be called lakes, and others rivers. The southern portion of the state is covered by an intricate network of these bayous, which before they were closed by a levee system carried off in time of flood much of the escaping surplus of river waters. The total length of navigable waters

in the state is about 3,500 miles. Many of the lakes, among them Pontchartrain, Borgne, Maurepas, and Sabine, are parts of the sea which have escaped the filling in process carried on by the great river and the smaller streams. There are countless small inland lakes along the Mississippi and Red Rivers and their tributaries.

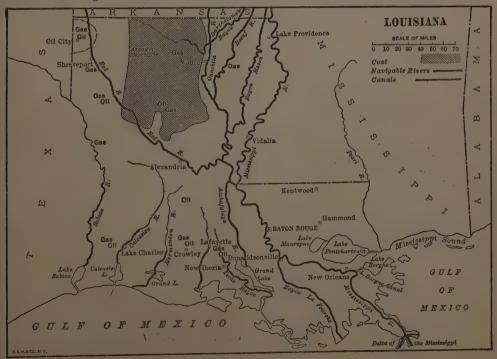
Climate. The climate of Louisiana is semitropical, and equable throughout the greater part of its area, being influenced materially by the prevailing southerly winds from the Gulf of Mexico. The differences in mean annual temperature are almost wholly due to differences in latitude and elevation. The mean annual temperature ranges from about 70° F. at Port Eads in the extreme southeastern part of the state, to 65° at Lake Providence in the northeastern part. The mean temperature for July varies from 81° to 83°; the mean for January varies from 46° in the extreme north to 56° in the extreme south. The rainfall is usually heavy in the southeast, but decreases toward the northwest. The average for a year at New Orleans is about 58 in., at Shreveport 46 in., and for the entire state it is 55 inches. A light fall of snow occurs sometimes in the northern portions, but in the southern part of the state it is almost unknown.

Agriculture. The soils of the greater part of Louisiana are highly fertile, and a varied and profitable agriculture is possible in all sections of the state. The general character of Louisiana

agriculture is indicated by the fact that somewhat less than one-third (32 per cent) of the total value of crops is contributed by the cereals. somewhat more than one-quarter (26.2 per cent) by cotton, and somewhat less than one-quarter (23 per cent) by sugar crops. The remainder. representing 18.8 per cent of the total, consists mostly of potatoes and other vegetables, of forest products, and of hay and forage. The leading crops (in the order of their importance as judged by value) are: sugar, cotton, corn, rough rice, cottonseed, hay and forage, and sweet potatoes and yams. Many of the fruits of warm-temperate and semi-tropical lands, whether native or exotic, including oranges, olives, figs, grapefruit, kumquats, and pomegranates are cultivated. Oranges are grown on the coast, and along the Misisssippi below New Orleans. Orchard fruits are fairly varied, but unimportant; the production of small

fruits is comparatively small.

Forests. The value and variety of the timber in the forests of Louisiana are very great. Much of the river swamp region is covered with cypress trees festooned with Spanish moss. The eastern pine belt covers an area of about 3,900 sq. m., and is composed largely of the long-leaf pine; the southwestern pine belt covers an area of about 4,000 sq. m., and contains the heaviest growth of long-leaf pine timber in the world. The short-leaf growth is especially heavy in the northwest portions of the state. The cypress forests of the alluvial and overflow lands in the



south of the state are among the largest and most heavily timbered known. Hard woods are found in the river bottoms throughout the state.

Fisheries. Shrimp, frogs, terrapin, clams, and oysters are common. Oysters are greatly

favored by state protective legislation.

Minerals. Mineral resources are few but important. The leading products are salt, sulphur, petroleum, and natural gas. The deposit of rock salt of Petite Anse Island in the coast swamp region is in places 1,000 ft. thick and yields salt of extraordinary purity. The state ranks fifth in the production of salt, and is the largest producer of sulphur in the United States. The Jennings Oil Field is one of the greatest in the United States. Natural gas is found in Caddo parish. Small quantities of iron ore and of brown coal, kaolin, and various clays are among the mineral deposits of the state.

Manufactures. A large proportion of the raw materials used in the manufactures of Louisiana is furnished by the forests of the state and by its sugar-cane, cotton, and rice fields. The difficulty of obtaining a sufficient supply of fuel much retarded the early development of manufactures, but the opening of short canals, the recent improvement of water-ways, and the increased railroad facilities of the state have reduced the cost of transportation of coal as of other commodities. The rapid development of the oil fields of the south has afforded a cheap substitute for coal and given an increased impetus to manufactures in Louisiana. New Orleans, the most important southern port, affords excellent opportunities for domestic coastwise and foreign commerce. important industries (arranged in the order of value of products) are: the manufacture of sugar and molasses, and sugar refining; lumber and timber; cottonseed-oil and cake; rice cleaning and polishing; bags, other than paper; and bread and other bakery products.

Education. A new school code (1912) established a state board of education composed of the governor, superintendent of public education, the attorney-general, and one citizen from each congressional district. There are separate schools for white and colored children. According to the state constitution no fund raised for the support of the public schools of the state shall be appropriated to or used for the support of any private or sectarian school. City schools are under a separate organization. There are two state normal schools for the training of teachers, and twenty-eight rural high schools. Higher schools include: the State University and Agricultural and Mechanical College, at Baton Rouge; Tulane University of Louisiana, in New Orleans; Jefferson College (Roman Catholic), at Convent; the College of the Immaculate Conception (Roman Catholic), at New Orleans; St. Charles College (Roman Catholic), at Grand Coteau; Silliman Collegiate Institute (Presbyterian, for women), at Clinton;

Mansfield Female College (Methodist Episcopal, South) at Mansfield; the Southwestern Louisiana Industrial Institute, at Lafayette; and among the schools for negroes are the Peabody State Normal and Industrial School, at Alexandria; and New Orleans University (Methodist Episcopal), Luther College (Evangelical Lutheran), Leeland University (Baptist), Straight University (Congregational), and Southern University (aided by the state), all at New Orleans

versity (aided by the state), all at New Orleans.

Government. Louisiana is governed under the constitution of 1898 with its amendments. The constitution requires that a voter must (in addition to other qualifications) either be able to show conclusively ability to read and write, or be the owner of property in the state "assessed at not less than \$300, on which, if personalty, all taxes are paid." But it excepts from these requirements persons who were entitled to vote in some state on or before the 1st of January, 1867; also the sons or grandsons of such voters not under twenty-one years of age on the 12th of May, 1898; and males of foreign birth who have resided in the state five years next preceding the date of application for registration, and who were naturalized prior to 1898. The constitution provides that no person, under sixty years of age, shall be permitted to vote unless he has paid an annual poll-tax of one dollar for the two years next preceding the year in which he offers to vote. Convicts not pardoned with an explicit restoration of suffrage privileges are disfranchised. Suffrage is extended to women taxpayers in questions submitted to the taxpayers as such. EXECUTIVE. The chief executive officers of the state are the governor, lieutenant-governor, secretary of state. treasurer, etc. They are elected for four year terms, neither the governor nor the treasurer being eligible for immediate reëlection. The governor must be at least thirty years old and must have been a citizen of the United States and a resident of the state for ten years next preceding his election. Within five days after the passage of any bill by the General Assembly he may veto this measure, which then becomes a law only if passed by a two-thirds vote of all members elected to each house of the General Assembly. In case of vacancy, the lieutenantgovernor succeeds to the office of governor. LEGISLATIVE. The legislative body, or the General Assembly, meets at Baton Rouge biennially, on the second Monday in May (even number years), and its sessions are limited to sixty days. Any elector is eligible for election as a representative if he has been a citizen of the state for five years and a resident of the district or parish from which he is elected for two years immediately preceding the election. A change of residence from the district or parish from which he is elected vacates the seat of a representative or a senator. The senator must be at least twenty-five years of age. Members of the legislature are elected for four years. Revenue or appropriation bills originate in the House of

Representatives, but may be amended by the Senate. Judiciary. The judiciary consists of the supreme court with five judges, elected by the people for a term of twelve years; circuit courts of appeals, the judges of which are appointed by the supreme court; and district courts with four judges, elected by the people. Local Government. The term "parish" is used in Louisiana instead of county. It is a relic of the old Spanish regime. The principal parish officers are prosecuting-attorney, sheriff, coroner, county clerk, assessor, treasurer, surveyor, superintendent of schools and health officer.

History. Louisiana was explored by De Soto in 1541, by Marquette in 1677, and by

La Salle in 1682; was settled by the French under Iberville and Bienville about 1700. In 1717 it was granted to a company of which John Law was the head, but in 1732 reverted to the crown; was ceded by France to Spain in 1763, but in 1800 became French territory. It was repurchased by the United States in 1803 and was created the Territory of Orleans in 1804; had the portion east of the Mississippi annexed in 1810; was admitted to the Union in 1812; seceded in January 1861; was largely occupied by the Federals 1862–63; and was readmitted in June, 1868. The constitution of 1898 prohibits lotteries and the sale of lottery tickets within the state.

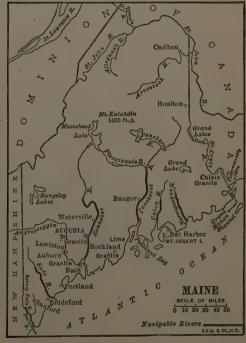
MAINE

MAINE (the Pine Tree State), the most northeasterly state of the American Union, and one of the New England group, lies between latitudes 43° 4′ and 47° 27′ 34″ N., and longitudes 66° 56′ 48″ and 71° 6′ 41″ W. It is bounded on the NW. by the Canadian province of Quebec; on the N. and E. by New Brunswick, from which it is separated in part by the St. John River, the Grand or Schoodic Lakes, the St. Croix River, and Passamaquoddy Bay; on the S. by the Atlantic Ocean; and on the W. by New Hampshire, the Piscataqua and Salmon Falls Rivers forming the natural boundary lines at the southwest. The state has a total area of 33,040 sq. m., of which 3,145 sq. m. represent water surface. It ranks as thirtyeighth in size among the states of the Union.

Coast. Measured in a direct line the coast of Maine extends some 270 miles, but counting sinuosities and the island shores, it has a length of about 2,500 miles. The rocky coast-line, trenched in bygone ages by glacial action, and broken and eroded by the unceasing pounding of the sea, affords many safe and capacious harbors, chief of which are Casco, Penobscot, Frenchman's, Machias, and Passamaquoddy Bays. West of the Kennebec River the coast is low, sometimes marshy, and fringed by many low grassy islands; but east of this river the shore becomes more and more rugged, with precipitous cliffs and rounded summits, as in Mt. Desert and Quoddy Head, which are respectively 1,500 and 1,000 ft. high. The charm of the Maine Coast, with its countless bays, its rocks and headlands, its picturesque mingling of land and sea views, is widely known. As the mountains and woods, the lakes and streams to the northward, attract an ever increasing number of those who seek rest, recreation, or sport, so the coast of Maine, drawing votaries from every class, finds its summer visitors more numerous each year.

Relief. The surface of Maine, a part of the New England Upland region, rises gradually from its rugged and much indented water-front on the Atlantic Ocean to the water parting, which sends the waters of the northern third of

the state northward and eastward to the St. John, and that of the southern two-thirds southward to the Atlantic Ocean. In the main it is a gently rolling upland region, broken in its western and north-central sections by a number of isolated mountain clusters and peaks, outposts of the great Appalachian system, all of which are more or less closely connected with the White Mountains of New Hampshire. Mount Katahdin (5,385 ft.) in the north-central part is the highest peak in the state. Southwest of Katahdin, in Franklin County, are found Mount Abraham (3,388 ft.); Saddleback Mountain (4,000 ft.), near Rangeley Lake; Mount Bigelow (3,600 ft.), on the line between Somer-



set and Franklin Counties; and Blue Mountain (3,200 ft.), also in Franklin County. The northern slope of the state is quite hilly in the middle and western portions, but descends gradually both to the north and northeast. It consists largely of forest land and is very sparsely inhabited, the resort of the trapper, the sportsman, and the lumberman, rather than the home

of an agricultural people.

Drainage. The St. John River, throughout the greater part of its course in Maine, is a somewhat sluggish stream, having for its main trib-utaries the Aroostook, the Alleguash, and the St. Francis Rivers. The chief rivers flowing to the south are the Penobscot, navigable for ships to Bangor, 60 m. from the sea; the Kennebec, which is navigable as far as Waterville, 68 m. from the sea; the Androscoggin, which enters the Kennebec about 18 m. from its mouth; and the Saco, which rises in the White Mountains in New Hampshire and enters the Atlantic seven miles below Biddeford, where there is a fall of 55 feet. Scattered over all sections of the state are not fewer than 1,600 beautiful lakes and ponds. These, in their picturesque settings of hill and woodland, have made Maine one of the ideal summer resort areas of the nation. Many of the lakes abound in trout, salmon, togue, black bass, and pickerel. Game is still plentiful in the wilder parts of the state. Moosehead Lake, on the boundary between Piscataquis and Somerset Counties, the largest inland body of water wholly in New England, is 35 m. long and from 2 to 10 m. wide, with an area of about 120 sq. miles. The Rangeley Lakes (sometimes called the Androscoggin Lakes), a chain of beautiful lakes in Franklin and Oxford Counties in the western part of the state, are connected by straits or short streams, and form a continuous water communication for about 50 miles. One of the chain, Umbagog Lake, extends into New Hampshire and its outlet helps to form the Androscoggin River. These lakes have an area of between 80 and 90 sq., m., and are from 1,200-1,500 ft. above the sea. Chesuncook and Twin Lakes, and the Grand or Schoodic Lakes at the head-waters of the Saint Croix on the eastern boundary, are famed for their picturesque features. Aside from the charm and beauty which these lakes give to the landscape, they play an important part in the industrial life of the state, since they contribute largely to the supply of water power for which the rivers of Maine are so well adapted. Considerable areas of the northern part of the state are swampy.

Climate. The climate of Maine is cool and moist, and extremes of temperature are infrequent. The heat of summer is tempered by the sea and land breezes, and the steady cold of winter is bracing and more easily borne than are the sudden changes of more southerly latitudes. The mean annual temperature for the entire state is about 42° F. The summers are short, with a mean temperature of 62°, there being less

than five months between frosts even in the most favored sections of the state. The winter climate is severe for the latitude, the mean temperature being about 20° F. Many of the harbors remain open during the entire winter, as heavy tides and off-shore winds prevent the accumulation of ice. The winds are variable, seldom blowing from the same direction for many days in succession. Fog is frequent in summer. The annual precipitation is about 42 in., distributed very evenly throughout the year.

Agriculture. In the Aroostook valley is the largest area of good arable land in all New England, and in the river valleys the soil is generally fertile; but Maine is not preëminently an agricultural state. The cultivation of cereals in most farming districts has given way in recent years to market-gardening, dairying, and egg and poultry production. The fine quality of the apples and small fruits grown in the southern part of the state, and the proximity of good markets, have induced many farmers to give more attention to horticulture than formerly.

Forests. The lumbering industries of the state are important, and the forest area under the state department of forestry tends to increase. Spruce, poplar, cedar, and white birch are the leading trees. The production of white (or Weymouth) pine, for which Maine was once famous, is now very limited. Oak, maple, and beech are scarce. The forest products include wood-pulp, potash, charcoal, firewood, tanners'-bark, and maple sugar.

bark, and maple sugar.

Fisheries. Fishing is now, as it has always been, one of the important industries. Maine markets more clams than any other state in the Union, and the scallop fishery is becoming more and more valuable. Other important catches are cod, hake, herring, haddock, smelt, mackerel, swordfish, shad, salmon, cusk, lobster, eels, and halibut. Among the industries connected with fishing are the canning of herring (as sardines), lobster, and salmon, and the manufacture of fish-oil and guano.

Minerals. The principal minerals are granite, limestone, clay products, and mineral waters. Manufactures. The industrial life of Maine

Manufactures. The industrial life of Maine and the chief sources of her wealth are now centered in her great and growing manufactures. The extensive forests, the wonderful water powers furnished by the rivers, the good harbors, and the excellent transportation facilities of the state, are the principal factors which have made possible the great manufacturing development of the present, which promises an even greater growth in the future. The ships built in Maine were for generations among the best afloat, but that industry has declined. Taken in the order of their value the leading manufactured products are: paper and wood-pulp, lumber and timber products, cotton goods, woolen goods (including worsted, felt goods, and wool hats), boots and shoes, canned and preserved goods, foundry and machine-shop products, and flour-mill and grist-mill products.

Education. Education is free for pupils from five to twenty-one years of age, and compulsory from seven to fifteen years of age during all the time that school is in session, except that necessary absences may be excused. The common school system is administered by towns and cities, subject to an increasing amount of control through enactments of the state legislature and the general supervision of the state superintendent. The town officers are a superintending school committee of three members, and a superintendent. The members of the committee are elected for a term of three years, one retiring every year, and women, as well as men are eligible for the office. The superintendent may be elected by the town or appointed by the committee; or towns having not less than twenty nor more than fifty schools may unite in employing a superintendent. Each town and city is required to furnish text-books, apparatus, and supplies, without cost to the pupils. The minimum length of the school year is fixed by statute at twenty weeks, but the average length is about twenty-eight weeks. The state maintains six normal schools-at Farmington, at Castine, at Gorham, at Presque Isle, at Fort Kent, and at Machias. The state provides for manual training in the normal schools and gives state aid for manual training in towns. At the head of the public school system is the University of Maine, near the village of Orono, in Penobscot County. Among the important private institutions for higher education are: Bowdoin College, Brunswick; Colby College (Baptist), Waterville; and Bates College (non-sectarian), Lewiston.

Government. Maine is governed under the constitution of 1819 and subsequent amendments. Suffrage is the right of all male citizens of the United States who are twenty-one years of age or over, and have lived in the state for three months next preceding any election. Residence in the state because of being in the military, naval, or marine service of the United States, or because of being students at college does not qualify for the suffrage; the following classes are also excepted: paupers, persons under guardianship, Indians not taxed, and all persons intellectually incapable of reading the state constitution in the English language, or of writing their names. EXECUTIVE. governor is the only executive officer of the state elected by popular vote. His term of office is two years, and the constitution requires that he shall be at least thirty years of age, a nativeborn citizen of the United States, that he shall have been a resident of the state for five years, and that he shall reside in the state while holding office. There is no lieutenant-governor, the president of the Senate succeeding to the office of gov-

ernor in case of a vacancy. An advisory council of seven members, elected by the legislature, aids and counsels the governor in the appointment of the subordinate officers of the state government. LEGISLATIVE. The legislative branch of the government is composed of a Senate and House of Representatives. It meets at Augusta biennially (odd number years), and no limit as to time restricts its sessions. Members of each house are elected for a term of two years. Every senator and every representative must at the beginning of his term have been for five years a citizen of the United States, for one year a resident of the state, and for three months next preceding election, a resident of the township or district which he represents. JUDICIARY. At the head of the department of justice is the supreme judicial court, which consists of a chief justice and seven associate justices appointed by the governor and council for a term of seven years. In Cumberland and Kennebec counties there is a superior court presided over by one justice, and in each of the counties there are a probate court, trial courts, and justice of the peace courts. LOCAL GOVERNMENT. The principal forms of local government are the county, the town, the plantation, and the city. The chief functions of the county are to assist the state in the administration of justice, and in the making and care of roads. Its officers, all of whom are elected, are three commissioners, a treasurer, a register of deeds, a judge and a register of probate, and a sheriff. The principal officers of the town are the selectmen, town clerk, assessors, collector, treasurer, school committee, and road commissioner. Maine is the only state in the Union that retains what is known as the organized plantation, a governmental unit organized from an unincorporated township having at least 200 inhabitants. The principal officers of a plantation are the moderator, clerk, three assessors, treasurer, collector, constable, and school committee.

History. Maine was visited by many of the early explorers, including the Cabots, Verrazano, Gomez, Gosnold, Pring, du Guast, De Monts, and others. The first permanent settlement dates from about 1623. The eastern part of the state was a part of Acadia or Nova Scotia until 1691, at which time the whole region then known as Maine was merged in the "province of Massachusetts Bay." Maine became a separate state in 1820, her admission being a part of the Missouri Compromise. A dispute with Great Britain over the northern boundary of the state was settled by the Webster-Ashburton Treaty in 1842. The Maine liquor law was passed in 1851. The long controversey over the northeast boundary was settled in 1910.

MARYLAND

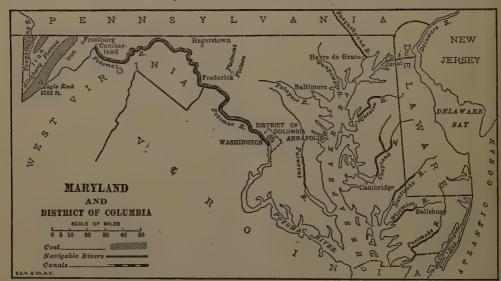
MARYLAND, one of the South Atlantic States and one of the thirteen original states of the American Union. It lies between latitudes

37° 53′ and 39° 43′ 36″ N., and longitudes 75° 3′ 45″ and 79° 35′ W. It is bounded on the N. by Pennsylvania; on the E. by Delaware

and the Atlantic Ocean; and on the S. and SW. by Virginia, the District of Columbia, and West Virginia. It is separated from the two Virginias, except on the extreme west, by the Potomac River and its north branch. Maryland ranks forty-first in area (12,327 sq. m., of which 2,386 sq. m. represents water surface) among the states of the Union.

Relief. Maryland presents great diversity of surface, as it is crossed from north to south by each of the leading physiographic features of the eastern section of the United States—the Coastal Plain, the Piedmont Plateau, the Appalachian Mountains, and the Alleghany Plateau. The Coastal Plain section, or tide-water Maryland, includes nearly the whole southeastern half of the state. Its separation from

the main, it presents a broad rolling surface and is divided near its middle by Parr's Ridge, an elevated strip which extends from northeast to southwest. West of Parr's Ridge the surface slopes gradually to the Monocacy River, beyond which it rises rapidly towards Catoctin Mountain. The Appalachian section of the state, generally known as Western Maryland, is crossed by the numerous parallel ridges of the Appalachian system. The highest elevations of the state rarely exceed 3,000 feet. The Great Appalachian Valley crosses the state west of the Blue Ridge. Near the western border of the state the mountains are merged into a rolling plateau, having an average elevation of 2,500 ft.—a continuation of the Allegheny Plateau of Pennsylvania and New York.



the Piedmont section is marked by a low ridge, which extends from the Susquehanna River at the Pennsylvania border, through Baltimore and Rockville, to the Potomac River. Chesapeake Bay divides the state into two parts peake Bay divides the state into two parts known as the Eastern Shore and the Western Shore. The Eastern Shore is a level, sandy, and generally fertile region, of low elevation, except in the north, where the surface becomes more rolling and hilly. Along its Atlantic border extends the narrow Sinepuxent Beach, a sandy pit which encloses the shallow lagoon known as Chincoteague Bay. The Western Shore, more elevated and more undulating than the Eastern Shore, slopes from northwest to southeast. Along the "fall-line," which forms its western border are a number of points about 300 ft. in height. The Piedmont Plateau section of Maryland extends west from the Coastal Plain section to the base of Catoctin Mountain. on the west border of Frederick county. In

Chesapeake Bay, varying in Drainage. width from 4 to nearly 40 m., has a channel deep enough for the largest ships from its Atlantic entrance nearly to the mouth of the Susquehanna River. Its effect upon the industrial and commercial development of the state is incalculable. It is connected with Delaware Bay and River by the Delaware and Chesapeake Canal. The Susquehanna and Tide-Water Canal follows the west bank of the Susquehanna River. The main drainage of the Eastern Shore is southwestward to Chesapeake Bay, but a low water parting sends a few insignificant streams to the Atlantic. The principal streams draining the Western Shore are: the Potomac, which is navigable as far as the city of Washington; the Patuxent, the Patapsco, and the Gunpowder, all flowing to Chesapeake Bay and all navigable near their mouths; and the Susquehanna, only a few miles of whose course is within the state. The Piedmont section is drained by the streams that cross the Western Shore to Chesapeake Bay. All the rivers of Western Maryland flow south into the Potomac except the Youghiogheny and its tributaries, which are carried through the Monongahela, the Ohio, and the Mississippi

to the Gulf of Mexico.

Climate. The climate of tide-water Maryland is largely influenced by the Atlantic Ocean and Chesapeake Bay. The winters are usually mild and the summers hot. To the elevation of Western Maryland may be attributed its delightful summer climate, and also its cold winters. The normal average annual temperature for the entire state is about 45° F., ranging from 48° in the northwest to 57° in the southeast. The normal annual precipitation for the state is 43.5 inches, ranging from 25 to 35 in. in the mountainous belt of the extreme western section to over 50 in. on the eastern slope of Catoctin Mountain, and along the middle shores of Chesapeake Bay. The prevailing winds are westerly.

Agriculture. Maryland has wide range of soils and climatic conditions and is therefore adapted to a variety of agricultural products. Of the total land area of the state 79.5 per cent is in farms, and 66.3 per cent of the farm land is improved. It is worthy of note that while the acreage of the state has declined slightly in recent years, the number of farms-has increased. In the same period, the total value of farm property has greatly increased. The general character of Maryland agriculture is indicated by the fact that about one-half (49.9 per cent) of the total value of crops is contributed by cereals, about one-sixth (18.2 per cent) by potatoes and other vegetables, and more than one-eighth (13.7 per cent) by hay and forage. The remainder, representing 18.2 per cent of the total, consists mostly of forest products, fruits and nuts, tobacco, small fruits, flowers and plants, and nursery products. Increasing attention is being given to market-gardening and to raising fruits and vegetables for canning and preserving. The live stock, dairy, and poultry interests are large.

Fisheries. The fisheries of the state are valuable, especially the oyster fisheries, which yield more than any other state in the Union. Other products are: shad, bass, perch, and

various shellfish.

Minerals. The coal deposits furnish the most important mineral product of the state, the great coal beds being chiefly in Allegany and Garrett Counties. Some iron ore is worked. Gold, silver and copper ores have been found in the state. Maryland has good building stones, chiefly granites, limestones, slate, marble, and sandstones. Brick, clays, and materials for porcelain are among the mineral products of commercial value.

Manufactures. The manufacture of clothing is by far the most important industry of the state. The other leading manufactures (in the order of value) are: copper, tin, and sheet-iron

products, canning and preserving, slaughtering and meatpacking, lumber and timber products, foundry and machine-shop products, tobacco, fertilizers, flour- and grist-mill products, and cars and general shop construction by steam railroad companies.

Education. At the head of the public school system of Maryland is a state board of education and a state superintendent, and under these in each county is a county board which appoints a county superintendent and a board of trustees for each school district, none of which is to be more than four miles square. The state superintendent serves for a term of four years. A school attendance law, referring especially to the city of Baltimore but capable of extension to most of the counties, requires attendance for the whole school year of children between the ages of eight and twelve, and also of those between the ages of twelve and sixteen who are not lawfully employed. A separate school for negro children is to be maintained in every election district in which the population is large enough to justify it. The state maintains four normal schools and one agricultural college. Maryland supports no state university, but Johns Hopkins University, one of the leading institutions of its kind in the country, receives large appropriations from the state; another institution which receives state aid is the University of Maryland. Among other schools for higher or special education are: Washington College (non-sectarian), at Chestertown; Mount St. Mary's College (Roman Catholic), at Emmitsburg; New Windsor College (Presbyterian), at New Windsor; Loyola College (Roman Catholic), at Baltimore; Western Maryland College (Methodist Episcopal), at Westminster; the Peabody Institute (for musical education), at Baltimore; the Woman's College, at Baltimore, and numerous professional and other institu-

Government. Maryland is governed under a constitution adopted in 1867, which has been frequently amended since that time. Suffrage is the right of all male citizens of the United States (including negroes) twenty-one years of age or over, who have resided for one year in the state, six months in the Congressional district, and one day in the precinct next preceding election; persons convicted of any infamous crime and not since pardoned by the governor, as well as lunatics and those convicted of bribery at a previous election, are not eligible for suffrage. Executive. The chief executive authority of the state is vested in a governor elected by popular vote for a term of four years. There is no lieutenant-governor; the office of governor is filled, in case of a vacancy, by a candidate elected by the General Assembly. A candidate for governor must be at least thirty years of age, must have been for ten years a citizen of the state, must have lived in the state for five years immediately preceding election, and must at the time of his election be a qualified voter

therein. The governor appoints, subject to the approval of the Senate, the secretary of state, the superintendent of public education, the commissioner of the land office, the adjutant general, justices of the peace, notaries public, the members of various administrative boards, and other administrative officers. The governor's veto may extend to items of a money bill, and no bill vetoed by him may become a law unless passed over his veto by a three-fifths vote of the members of the General Assembly. Other executive officers of the state are: a treasurer, elected by joint ballot of the General Assembly for a term of two years; a comptroller, elected by popular vote for two years; and an attorney-general, elected by popular vote for four years. LEGISLATIVE. The Legislature, or General Assembly, meets at Annapolis biennially (even number years), the session being limited to 90 days. It consists of a Senate and a House of Delegates. Senators (one from each of the twenty-three counties and one from each of the legislative districts of Baltimore) are elected for a term of four years, the terms of one-half the number expiring every two years. Delegates are elected for a term of two years, from each county and from each legislative district of Baltimore, according to population. A senator must be at least twenty-five years of age, and both senators and delegates must have lived within the state at least three years and in their county or legislative district at least one year next preceding their election. No minister, preacher, or priest is eligible for either office.

JUDICIARY. The administration of justice in Maryland lies in a court of appeals, circuit courts, special courts for the city of Baltimore, orphans' courts, and courts of justices of the peace. The state (exclusive of the city of Baltimore) is divided into seven judicial circuits, in

each of which are elected for a term of fifteen years one chief judge and two associate judges who, together with one elected from the city of Baltimore, constitute the court of appeals. The three judges elected in each circuit constitute the circuit court of each of the several counties in such circuit. Three other judges are elected for terms of four years in each county and in the city of Baltimore to constitute an orphans' court. The number of justices of the peace for each county is fixed by local law. They are appointed by the governor for terms of two years.

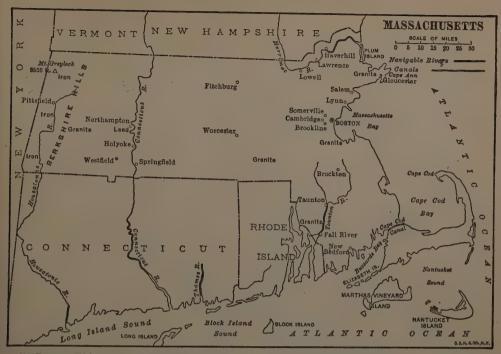
History. Maryland, through the grant made by Charles I. to George Calvert, first Lord Baltimore, became a proprietary colony, and its settlement was begun at St. Mary's, in 1634. During colonial times it was involved in the Claiborne rebellion, and in boundary and other disputes. In 1649, religious toleration was enacted for all sects and churches which acknowledged a belief in the Trinity. For many years the colony was torn by contest between the proprietary party and Puritan settlers. There was a time when Roman Catholics were denied the privileges which Lord Baltimore had granted to Protestants: Baltimore was founded in 1729. The boundary with Pennsylvania was finally settled, 1763-'69, by Charles Mason and Jeremiah Dixon, who established the line, named after them, which runs along the parallel 39° 43′ 26.3″ N. Lat. Mason and Dixon's line became famous as the dividing line between the free states and the slave states. Maryland remained in the Union during the Civil War, but slavery existed in the state until the final emancipation of all slaves by the Federal Government. Since 1865 there has been a large immigration from the northern states as well as from the countries of Europe.

MASSACHUSETTS

MASSACHUSETTS (name of one of the early Indian tribes), one of the New England States, and one of the original "Thirteen" of the American Union. It lies approximately between latitudes 41° 15′ and 42° 50′ N., and longitudes 69° 55′ and 73° 30′ W. It is bounded on the N. by Vermont and New Hampshire; on the E. by the Atlantic Ocean; on the S. by the Atlantic Ocean, Rhode Island, and Connecticut; and on the W. by New York. It ranks forty-fourth in area (8,266 sq. m., of which 227 sq. m. represent water surface) among the states of the Union.

Coast. The coast-line of Massachusetts extends from Salisbury Beach on the northeast to the Rhode Island boundary on the southwest. Its main indentations are Massachusetts Bay (terminating in Boston Harbor), Cape Cod Bay, and Buzzards Bay. The smaller inlets and harbors are those (beginning at the north) of Newburyport, Ipswich, Annisquam (or Squam), Gloucester, Beverly, Salem, Marble-

head, Nahant, Lynn, Plymouth, Sandwich, Barnstable, Wellfleet, Provincetown, Chatham, Cotuit, Hyannis, Woods Hole, New Bedford, and Westport. Plum Island in the northeast is the northernmost of the sand spits that are so characteristic of the Atlantic coast. Cape Ann. the bold and rocky promontory of the northeast is a summer recreation ground with romantic scenery, whose native inhabitants are largely engaged in the fisheries and in granite quarry-From Cape Ann to Boston the shore is rocky and picturesque, and summer resorts are numerous. Boston Harbor is the finest road-stead on the coast. Cape Cod, often likened to a human arm bent at the elbow, 40 m. from shoulder to elbow, and 30 m. from elbow to hand, is a sandy ridge nowhere more than a few miles broad. This also is a summer resort land, dotted with cottages and hotels. Cape Cod can no longer be classed as a peninsula, for a ship canal has been cut across the "shoulder" which joins the waters of Cape Cod and Buz-



zard's Bays. This canal eliminates the dangerous passage around the Cape and shortens the distance from Boston to New York and southern ports by seventy miles. Buzzard's Bay, measuring about 10 by 30 m., and separated from Vineyard Sound by the Elizabeth Islands, is a popular yachting ground. Its shores are lined with summer homes and hotels. Woods Hole is a station of the United States Bureau of Fisheries, and a marine biological laboratory is located there. Off the south coast lie a number of islands, of which the largest is Martha's Vineyard, about 20 m. long, with an extreme breadth of a little less than 10 miles. In former years its population was wholly dependent upon the sea, but now its chief revenues are drawn from summer boarders. Vineyard Haven is a spacious harbor. and Oak Bluffs one of the chief resorts of the Atlantic coast. Nantucket is a smaller island southeast of Martha's Vineyard with the same type of population and pursuits as its larger neighbor.

Relief. The southeastern corner of Massachusetts is a sandy and generally level lowland with a slightly elevated ridge (Manomet) south of Plymouth. The rest of the state is a part of the slanting upland that includes all of southern New England. The surface is uneven, varying from low plains near the seacoast to a rolling country in the interior, and becoming mountainous towards the western boundary. The Blue Hills in Milton are the elevations nearest to the coast, and are conspicuous to navigators

when approaching Boston. The loftiest elevation east of the Connecticut Valley is Mount Wachusett (2,108 ft.), a detached elevation in Worcester county. Rising from the lowlands of the Connecticut, on the west, are Mount Tom (1,214 ft.), Mount Holyoke (954 ft.), and Mount Toby (1,275 ft.). Beyond the lowlands and forming the western border of the valley are the Berkshire Hills, a part of the Great Appalachian System, which are continued to the northward in the Green Mountains of Vermont. The Berkshire country is one of the most beautiful regions in all New England. Its charm has been celebrated by American writers, and it has become a favored residence section for people of discrimination who have the means to command a home in the country. The hill ridges are long and wooded, and intersected by deep valleys. Many picturesque lakes, nestled among the hills, add to the attractiveness of the landscape, and increase facilities for recreation and aquatic sports. The Hoosac Hills, a range of the Berkshires from 1,200 to 1,600 ft. high, separate the valleys of the Housatonic and Connecticut Rivers. West of the Housatonic valley is the Taconic range, which contains Greylock or "Saddleback" (3,538 ft.), the highest point in the state, and Mount Williams (3,042 ft.).

Drainage. The Connecticut River, having its head waters in northern New Hampshire, flows through the state from north to south, and is navigable by small craft. Its valley is the

most productive agricultural region of the state and is famed for the quiet charm and beauty of its scenery. The Housatonic, rising in Berkshire county, winding along the barrier of the Hoosac Hills, and running southward into Connecticut, is the most beautiful river of the state. The Merrimac, the second river of the state in volume, enters the state from New Hampshire, flows through a lovely valley in the northeastern corner of the state, and furnishes water-power for the great manufacturing towns of Lowell, Lawrence, and Haverhill in Massachusetts, as well as for the towns along its course in New Hampshire.

Climate. The climate of Massachusetts is variable and marked by sudden changes and extremes of temperature. Near the coast the ocean tempers the climate considerably both in winter and summer. The mean average temperature of Boston is 47.5° F., but in the interior it is about 45°. The mean summer temperature for the entire state is 70° F. In the elevated western part of the state the winters are severe, having a winter mean of 23°, and the springs and summers are late and cold. The summers and autumns are delightful, especially in the Berkshires. The annual precipitation is 38 to 45 in., decreasing inland, and is quite evenly distributed throughout the year. Northeast and east winds prevail in the coast region.

Agriculture. On lands along the borders of the streams, upon the more level areas, and wherever the soil is finely textured, corn and hay are the chief crops. Numerous small bogs of a peaty or swampy nature, in the southeastern part of the state, constitute extremely valuable cranberry soils. The sandy and sandy loam soils, in the vicinity of Boston and in the valleys of the Merrimac and its tributaries, are largely used for market-gardening. The level terrace of the Connecticut basin forms some of the best farm lands within the state. It is upon these soils that the tobacco culture of Massachusetts has been most widely developed, and more recently market-garden and trucking crops, particularly onions, have been extensively produced. These soils also give good yields of corn, oats, and grass. In the Berkshire valleys, in the western part of the state, the soils are excellent for the growth of corn and grass. Throughout the highland portions of the state the steeper slopes are used as mountain pastures or form wood-lot and forest areas. The more gentle slopes are occupied by tilled fields. leading crops of the state (in the order of value) are: dairy products, hay and forage, potatoes and other vegetables, poultry and eggs, flowers and plants and nursery products, forest products of farms, fruits and nuts, small fruits, cereals,

Minerals. Granite is the chief mineral, and granite quarrying is the leading mineral industry of the state. The principal granite quarries are in Milford (Worcester County), Quincy and Milton (Norfolk County), Rock-

port (Essex County), and Becket (Berkshire County). Other minerals are emery, limestone, quartz, clays and mineral waters.

Fisheries. Fishing has been an important industry in Massachusetts from the days of its first settlement. The whaling trade, of which Nantucket and New Bedford were once the chief centers, is now nearly extinct. The daring deeds of those once engaged in this industry, have been celebrated in poetry and romance, and they contributed much to the wealth and glory of the Bay State and made its name known in every quarter of the globe. At the present time, the great commercial fishing grounds lie nearer the home waters. Cod, caught on the Newfoundland Banks, is now, as it was in colonial times, the most valuable catch, and Gloucester is the chief center of the trade. Haddock, mackerel, herring, pollock, hake, and halibut, are among the other varieties of fish which are commercially important.

Manufactures. Natural facilities for waterpower and the energy and intelligence of her people led to an early industrial development, so that to-day Massachusetts is one of the leading manufacturing states of the Union. The principal products of her factories (in the order of their value) are: boots and shoes, cotton and woolen textiles, felt goods, foundry and machine shop products, printing and publishing, slaughtering and meat packing, paper and woodpulp, leather, and electrical and other machinery.

Education. A state Board of Education has general control of the school system of the state, its secretary acting as superintendent in conjunction with local superintendents and committees. Women are eligible for these positions. School attendance is compulsory from seven to fourteen years of age, and the proportion of the child population that attends schools is equaled in but two or three states east of the Mississippi River. No recognition is made in the schools of race, color, or religion. The public school system includes common, high, and normal schools, vocational schools, and various evening, industrial, and truant schools. The commonwealth contributes to the support of textile schools in cities in which 450,000 spindles are in operation. It also maintains aboard a national ship a nautical training school for instruction in the science and practice of navigation. It supports an agricultural school at Amherst. Besides the public schools there are several hundred private schools and numerous higher academies and college preparatory schools. The leading educational institution of the state and the oldest and most famous in the country, is Harvard University (founded 1636) at Cambridge. Other institutions of national repute are: Williams College, at Williamstown; Amherst College, at Amherst; Boston University (Methodist Episcopal); Tufts College, in Medford; Clark University and Clark College, in Worcester; Boston College (Roman Catholic); and College of the Holy Cross in Worcester. Of the various institutions for the higher education of women the most prominent are: Mount Holyoke, at South Hadley, Smith College, at Northampton, Wellesley College, at Wellesley, near Boston, Radclime College, in connection with Harvard, and Sim-

mons College at Boston.

Government. Massachusetts is governed under the constitution of 1780 and its amendments. Suffrage is the right of every male citizen of the United States who has been a resident in the state for one year, and in the election district or precinct for six months previous to the election, provided he can read the constitution of the commonwealth in the English language and write his name. Every female citizen having the qualifications of a male voter may vote in the city and town elections for members of the school committee. Excluded from suffrage are paupers and persons under guardianship. Executive. Massachusetts is one of the two states in the Union in which the elections for state officers are held annually. The chief executive officers of the state are the governor and lieutenant-governor. No person is eligible to the office of governor unless at the time of his election he shall have been an inhabitant of the state for seven years next preceding his election. He is assisted in his executive functions by an executive council consisting of members chosen to represent divisions of the state. In the governor's absence the lieutenantgovernor shall be president of the council but shall have no vote in council, and the lieutenantgovernor shall always be a member of the council except when the chair of the governor shall be vacant. The other state officers are secretary, treasurer and receiver-general, auditor and attorney-general, all chosen annually in November. LEGISLATIVE. The legislative body, known as the General Court of Massachusetts, consists of a Senate and a House of Representatives, members of which are elected, respectively, from senatorial and representative districts formed on a population basis. The General Court meets annually at Boston on the first Wednesday in January, and at such other times as the members judge necessary, or when called by the governor. The length of session is not prescribed by law. The power of impeachment rests with the house, the trial of impeachment with the Senate. A two-thirds vote of each house overrides the governor's veto.. JUDICIARY. The judicial power of the state is vested in a supreme judicial court, superior court, probate courts and courts of insolvency, a land court, a

Boston juvenile court, district courts, and a court of appeals. All judicial officers are nominated and appointed by the governor by and with the consent of the council, and they hold office during good behavior. LOCAL GOVERN-MENT. The county officers are the judge of probate and insolvency, prosecuting-attorney, sheriff, clerk of court, register of probate, register of deeds, and county treasurer. In Massachusetts the word "town" is used officially and colloquially to designate a township. Although the tendency in Massachusetts is towards chartering as cities towns which have a population of 12,000 or more, the democratic institution of the town meeting persists in many large municipalities which are still technically towns. Towns hold their annual meeting in February, March, or April. The town officers consist of selectmen, a clerk, a treasurer, three or more assessors, three or more overseers of the poor, one or more collectors of taxes, one or more auditors, one or more surveyors of highways, a road commissioner, a sewer commissioner, a board of health, one or more constables, two or more field drivers, two or more fence viewers, and a tree warden.

History. The coast of Massachusetts is supposed to have been visited by the Northmen about 1000 A. D.; but the first permanent white settlement was made by the Pilgrim Fathers at Plymouth, near Cape Cod, in December, 1620. This is known as the Plymouth Colony. In 1628, a company of Puritans settled at Salem, and from that beginning was formed the Massachusetts Bay Colony, which included the settlements of Boston, Lynn, and other towns. In 1692, the two colonies were united. After the War of Independence, begun in Massachusetts in 1776 with the battles of Lexington and Bunker Hill, the colony became one of the original thirteen states of the Union. Massachusetts was settled by those who sought religious liberty as they understood that expression, but not as it would be understood by their descend-Narrow and bigoted they were, and determined to exterminate every heresy; but they were strong, and far in advance of their transatlantic contemporaries. The banishments to Rhode Island and the witchcraft scare are dark spots in the history of the state, but they grow dim in the light of the splendid record of later days. Religious toleration was bound to grow, and Massachusetts has long been a leader among the other states in its devotion to all that stands for human liberty—civil, legal, and religious

MICHIGAN

MICHIGAN, an East North-Central State of the Union, lies between latitudes 41° 42′ and 47° 32′ N., and longitudes 82° 25′ and 90° 32′ W. The northern peninsula is bounded on the N. by Lake Superior; on the E. by Lakes Superior, George, Huron, and Michigan, and by St. Mary's River which separates it from the

Canadian province of Ontario; on the S. by Lakes Huron and Michigan and the Straits of Mackinac, which separate it from the lower peninsula; and S. and W. by Wisconsin. The lower or southern peninsula is bounded on the N. by Lakes Michigan and Huron and the Straits of Mackinac; on the E. by Lakes Huron, St.

Clair and Erie, and the St. Clair and Detroit Rivers which separate it from Ontario; on the S. by Ohio and Indiana; and on the W. by Lake Michigan. The upper peninsula is 318 by 164 m., and the lower peninsula, 227 by 177 m.; and the state has a gross area of 57,980 sq. m., of which 500 sq. m. represent water surface. In size Michigan ranks twenty-second among the states of the Union.

Relief. Lake Huron on the east, and Lake Michigan on the west of the lower peninsula are each 5811/3 ft. above sea level; Lake Superior on the north of the upper peninsula is 600 ft. above sea level. The greater part of the state is gently undulating, and at a slight elevation above the lakes, but low and even swampy areas are common to many sections. A depressed area crosses the lower peninsula from Saginaw Bay west by south through the valleys of the Saginaw, Maple, and Grand Rivers. Throughout this lowland section the elevations are less than 100 ft. above the lakes. To the southeast of this depression a water parting, with elevations varying from 400-600 ft. above the lakes, extends from the southern part of Huron county to the southern border of the state. The east slope of this parting falls rapidly to a low, flat belt, from 5-35 m. wide along the eastern border of the state. West of the divide and south of the depression, southwest Michigan is occupied by river valleys and by the gently rolling uplands which divide them. From the central depression northward, the land rises gradually to the plateau district, which occupies the northern and northwestern parts of the state. This is a rolling country which reaches its culminating point (about 1,100 ft. above Lake Michigan) north of the center. The surface of the northern peninsula is much more irregular than that of the southern or lower. A



depressed area extends west and south through the middle, from Chippewa County, on the east, to Delta County, on the west. This depression lies between two ranges of hills, one lining the south shore and ranging from 100-300 ft. in height; the other on the north approaching close to the shores of Lake Superior. The cele-brated Pictured Rocks in Alger County, form the western portion of this northern range. The western part of the northern peninsula is a much more rugged region. South and southeast of Keweenaw Bay is the Marquette iron region, in which some of the peaks of the Huron Mountains rise to an elevation of 1,400 ft. or more above the lake. To the south of this region is the Menominee iron district, with a number of east and west ridges. Extending in a general northeast and southwest direction, through the Keweenaw peninsula to the Wisconsin border and beyond, is the middle of three approximately parallel ridges, separated from each other by low, flat lands, with here and there an isolated peak having an elevation of 900-1,500 ft. above the lake. In the northern portion of these ranges and on Isle Royale are found the Michigan copper bearing rocks. The highest point in the state (2,023 ft.) is found in the Porcupine Mountains in Ontonagon County.

Drainage. The southern or lower peninsula of Michigan abounds in small lakes and streams, some of which are navigable to a considerable extent, while others afford much water power. The larger rivers of the state, the Muskegon, Grand, St. Joseph, Manistee, and Kalamazoo, are in the west portion of the lower peninsula. The rivers along the eastern border of the lower peninsula are generally sluggish streams. Many of the streams of the upper peninsula that flow into Lake Superior contain falls and rapids. Numerous islands in the surrounding lakes are included within the Michigan territory.

Climate. The climate of Michigan is marked by extremes of winter temperature, the thermometer in some sections frequently marking —15° to —30° F. The mean annual temperature is 46.1° (summer, 68.5°; winter, 23.8°). The temperature of the entire lower peninsula is considerably influenced by the lakes, but as the prevailing winds are westerly, it is in the western portion of that peninsula that the moderation is greatest. The prevailing winds of the upper peninsula are northwesterly, consequently the lakes have but little effect on the temperature there. Throughout the state July is invariably the warmest month, February the coldest. The mean annual precipitation is 35 in. and is evenly distributed over all parts of the state, but the snowfall is exceptionally heavy along the northern shore of the upper peninsula.

the northern shore of the upper peninsula.

Agriculture. The soil is generally rich and more than half of the state's land surface is included in farms. Much attention is given by farmers to the raising of domestic animals, poultry, and bees. The leading crops of the state (in the order of their importance as judged

by value) are hay and forage, corn, oats, wheat, potatoes, dry edible beans, and rye. Among special crops may be mentioned peppermint, of which Michigan produces the bulk of that grown in the United States. The peppermint district is in the southwestern corner of the state. Kalamazoo, Jackson, Washtenaw, Lenawee, Ingham, Bay, and Muskegon are the leading celery producing counties. Market-gardening is an important industry both of the counties in the southwest and in the southwest. All the principal fruits are grown in large quantities in what is known as the "fruit belt" in the southwest.

Fisheries. Michigan has extensive fishing interests. Nearly one-half of the catch, both in quantity and value, is taken from Lake Michigan and more than 90 per cent of the value consists of trout, herring, whitefish, and perch. There are both state and national hatcheries established within the state, and state laws protecting the industry by regulating the size of the mesh in the net used, prescribing the size of fish that may be taken and kept, and establishing a closed season for several kinds of

fish.

Forests. Before it was settled by whites, the section now included in Michigan was a forest, except a portion in the southwest where there was a small prairie area. Less than 40 per cent of the state is now in woodland. Red oak, birch, elm, ash, white cedar, hemlock, basswood, spruce, poplar, balsam, fir, and several other kinds of trees are found in many sections, but most of the merchantable timber, especially in

the lower section, has been cut.

Minerals. Michigan has immense resources of iron ore in the Marquette, Menominee, and Gogebic districts. Next in value to iron among the mineral products is copper. There are about twenty copper mines in the Keweenaw Peninsula and its vicinity, and of these the Calumet and Hecla mine is one of the most famous and one of the most profitable copper mines in the world. Fields of bituminous coal extend over an area of over 10,000 sq. m. in the central portion of the lower peninsula, but its quality is inferior. Salt wells are numerous in the middle and southeast sections of the lower peninsula. The other minerals include clays, Portland cement, graphite, asbestos, grindstone, gypsum, sandstone, limestone, mineral waters, and petroleum.

Manufactures. Michigan has for many years been one of the leading manufacturing states. The early development of its manufacturing industries was due largely to the utilization of its extensive forests, while the growing markets afforded by the rapidly developing West, the advantageous situation of the state with respect to markets, and its important agricultural and mineral resources, have also been factors in its progress. The leading industries (arranged in the order of value of product) are the manufacture of automobiles; lumber and timber products; foundry and machine-shop

products; flour-mill and grist-mill products; furniture and refrigerators; printing and publishing; tobacco manufactures; leather; butter, cheese, and condensed milk; paper and wood

pulp.

Education. Michigan is noted for the high standard of her public schools. Each township operating under the District Act has two school inspectors who with the township clerk constitute the township board of school inspectors. This board possesses the authority to divide the township into school districts, and exercises a general supervision over the several schools within its jurisdiction. In each district having an ungraded school, the affairs of the school are under the supervision and direction of a district school board. Each county has a school commissioner, elected for four years, who has general supervision over the schools within his jurisdiction. Finally, at the head of all the public, elementary, and secondary schools of the state are the state superintendent of public instruction, elected for a term of two years, and the state board of education. In every district having 800 children or more between the ages of five and twenty, the state requires that school be taught not less than nine months a year. Under an act of 1913, the period of compulsion covers the ages seven to sixteen years, for the entire term of school. The higher state institutions of learning comprise four normal schools located at Ypsilanti, Mt. Pleasant, Marquette, and Kalamazoo; an agricultural college, at East Lansing; a college of mines, at Houghton; and the University of Michigan, at Ann Harbor. Among the important institutions within the state, but not maintained by it, are: Albion College (Methodist Episcopal), at Albion; Hillsdale College (Free Baptist), at Hillsdale; Kalamazoo College (Baptist), at Kalamazoo; Adrian College (Methodist Episcopal), at Adrian; Olivet College (Congregational), at Olivet; Hope College (Reformed), at Holland; Detroit College (Roman Catholic), at Detroit; Alma College (Presbyterian), at Alma; and several professional schools at Detroit.

Government. Michigan is now governed under a constitution adopted in 1850, and its amendments. Suffrage is conferred upon every male citizen of the United States who is twentyone years of age and over, and has resided in the state six years, and in his own township or ward twenty days immediately preceding an election; and any woman may vote in an election involving the direct expenditure of public money or the issue of bonds, provided she has the qualifications of male electors and has property assessed for taxes in any part of the district or territory affected by the election in question. EXECUTIVE. At the head of the executive department is the governor, elected for two years. A lieutenant-governor is elected at the same time and for the same term. These officers must be at least thirty years of age and must have been for five years citizens of the United States and for the two years immediately preceding their election residents of the state. The veto power of the governor may be applied to any item or items of any bill making appropriations of money and embracing distinct items. affirmative vote in each house of two-thirds of the members elected is required to pass a bill over his veto. The lieutenant-governor succeeds the governor in case of vacancy, and next in order of succession is the secretary of state. The secretary of state, treasurer, auditorgeneral, attorney-general, commissioner of the land office, superintendent of public instruction, and judges are elected, but minor executive officers are appointed. LEGISLATIVE. The legislature consists of a Senate and House of Representatives. It meets at Lansing biennially (odd number years), the length of session being unlimited. Both senators and representatives are elected for a term of two years by single districts, except that a township or city which is entitled by its population to more than one representative elects its representatives on a general ticket. JUDICIARY. The administration of justice is entrusted to a supreme court, circuit courts, one probate court in each county, and not exceeding four justices of the peace in each township. The supreme court is composed of one chief justice and seven associate justices, elected for a term of eight years, not more than two retiring every two years. It holds four sessions annually and exercises a general control over the inferior courts. There is only one circuit court judge for a circuit, unless the legislature provides for the election of more. term of office is six years. Each county elects a judge of probate for a term of four years. Justices of the peace are elected by the townships for a term of four years. Local Government. For the purposes of local government the state is divided into counties, each of which is in turn divided by north and south, and east and west lines into townships. In some of the sparsely inhabited counties the townships are much larger than in other parts of the state. Officers of the township are supervisor, clerk, treasurer, highway commissioner, one overseer of highways for each highway district, justice of the peace, and constables. All township officers are elected at the annual township meeting in April. The supervisor, two justices of the peace, and the clerk constitute the township board. The supervisor is also the township assessor, and the several township supervisors constitute the county board of supervisors. Other county officers are a treasurer, clerk, sheriff, register of deeds, attorney, surveyor, and two coroners, each elected for a term of two years; a school commissioner elected for a term of four years; and one or more notaries public

apointed by the governor.

History. What is now the state of Michigan was probably visited by Jean Nicolet in 1634 at Sault Ste. Marie, where the first permanent white settlement was made by Father Marquette in 1668. Detroit was founded in 1701 by the French under Cadillac. The country was ceded to Great Britain in 1763; later was the scene of Pontiac's War; was formally surrendered to the United States in 1796; formed part of the Northwest Territory and later of Indiana Territory; and was constituted Michigan Territory in 1805. Detroit was taken by the British during the War of 1812. Michigan was recovered by the United States in 1813, and was admitted

to the Union in 1837.

MIDWAY ISLANDS

MIDWAY ISLANDS, two small islands belonging to the United States, lie in the Pacific Ocean in latitude 28° 12′ N., and longitude 177° 22′ W. The islands are known respectively as Sand, or Eastern Island, and Western Island. They are 1,200 m. northwest of Hawaii, about midway between America and Asia, and are of importance because Sand Island is utilized as a relay station of the Commercial Pacific Cable Company. The superintendent of the cable station and his assistant, together with a small

company of government marines, are the only inhabitants. The islands are low and sandy, almost destitute of vegetation, and are surrounded by a coral reef some 16 m. in circumference, 5 ft. high, about 25 ft. wide, and open only on the west side. Sand Island is 134 m. long and 34 of a mile wide, and has an extreme elevation near its center of nearly 43 ft. above the sea. The sheltering reef renders the island habitable, and Welles Harbor is roomy and safe.

MINNESOTA

MINNESOTA, a West North-Central State of the Union, lies between latitudes 43° 30′ and 49° N., and longitudes 89° 39′ and 97° 18′ W. It is bounded on the N. by the Canadian provinces of Manitoba and Ontario; on the E. by Lake Superior and Wisconsin; on the S. by Iowa; and on the W. by South and North Dakota. Minnesota is about 400 m. in length and 350 m. in width. It ranks eleventh in size among the

states, with a gross area of 84,682 sq. m., of which 3,824 sq. m. are water surface.

Relief. The greater part of Minnesota is rolling or hilly country, much dissected by rivers and without strong relief. The average elevation for the entire state is about 1,280 ft. above sea level, or 600 ft. above the surface of Lake Superior. The northeastern part of the state is included in the Great Lakes District.

and the southern and western parts are in the Prairie Plains Province. In an elevated area in the north-central part of the state are the remote sources of three great continental river systems. From this central water parting, the surface slopes off in all directions, but rises again in the extreme northeast corner, where the Mesaba (or Mesabi) Range (the highest land in the state) reach an altitude of about 2,400 ft.: and in the southwest corner, where an altitude of 1,800 ft. is reached in the Coteau des Prairies. Only in the valleys of the Red, Minnesota, and Mississippi Rivers, does the surface of the state fall below an elevation of 800 feet. Open, rolling prairies, interspersed with groves and belts of hardwood timber, predominate in the central and southern portions of the state. A little north of the center the state is traversed from northwest to southeast by an extensive forest area, in which oak predominates.

Drainage. Of the three great river systems mentioned above, the Mississippi with its tributaries drains about two-thirds of the state into the Gulf of Mexico. In the northeast, the waters of the St. Louis, and several smaller streams which empty into Lake Superior, are carried to the Atlantic by way of the Great Lakes and the St. Lawrence River. The Red River and its tributaries drain the western and westcentral slope northward through Lake Winnipeg into Hudson Bay. The Mississippi River, which flows for nearly 800 miles within and along the borders of the state, has its principal source in Lake Itasca. It is navigable below St. Paul, and above Minneapolis affords facilities for the transport of logs by means of booms. The falls of St. Anthony, St. Cloud, and Little Falls, provide water power for manufacturing purposes. The Minnesota River is its principal tributary within the state. The Red River, having its source in Lake Traverse, forms the western boundary of the state for more than half its distance; its most important tributary is the Red Lake River; both are navigable by vessels of light draft, at high water. A small area in the southern part of the state is drained through the western fork of the Des Moines River. Scattered over the surface of Minnesota are upwards of 10,000 lakes, a number exceeding that of any other state in the Union. The lakes in the north are generally deep, with ragged, rocky shores; those of the south are generally shallow. Red Lake, in Beltrami County, is the largest in the state (area, 342 sq. m.). Other large lakes are Mille Lacs (198 sq. m.), Leech Lake (184 sq. m.), Lake Winnibigashish (85 sq. m.), and Vermilion Lake (66 sq. m.). On the Canadian boundary are Lake of the Woods (650 sq. m.) and Rainy Lake (150 sq. m.), both of which are drained northward into Hudson Bay. Several large lakes, such as Pepin, Traverse, and Big Stone, are river expansions.

Climate. The climate of Minnesota is characterized by a low mean annual temperature, and unusually dry and rarified atmosphere,



with an almost complete absence of damp, foggy weather. The mean annual temperature, according to the reports of the United States Weather Bureau, varies from 45° F. at St. Paul and points in the southern part of the state, to 37° at points in the northeast. The cold increases not only from south to north, but to some extent from east to west. In the southern part of the state killing frosts are rare from early May until late September, but in the north they are not uncommon late in May or early in September. The mean annual rainfall is about 33 inches. The greater part of the state is covered with snow during the winter, the mean fall varying from about 52 in. at points in the northeast to 23 in. in the southwest. In most localities the prevailing winds are northwest in winter and southerly in summer, but at Duluth, on the shore of Lake Superior, they are southwest during November, December, and January, and northeast during the remainder of the year.

The principal industry of Agriculture. Minnesota is agriculture. The soils of the state are generally fertile. In the southern counties and in the valleys of the Red and Minnesota Rivers they consist largely of a dark brown or black sandy loam, the richness of which renders it capable of many successions of crops. In this section cereal crops predominate. Towards the east-central part of the state there is a sandy soil, which is devoted largely to potatoes and similar crops. Large areas of swamp lands in the central and north-central parts of the state, once counted non-arable, have been drained and are now excellent general farming lands. The north-central and northeastern portions of the state are occupied by sandy and gravelly soils

which are frequently too porous to permit the production of the staple crops, and which are either timbered or brush grown. Around the immediate border of Lake Superior there are considerable areas of red clays and clay loams which are being utilized for general farming, dairying, and the production of vegetable crops. Thousands of acres of undrained land await improvement and occupation. The general character of Minnesota agriculture is indicated by the fact that about three-quarters (72.8 per cent) of the total value of crops is contributed by the cereals, and about one-eighth by hay and forage; the remainder (representing 13.4 per cent of the total value) consists mostly of potatoes and other vegetables, and of other forest products. The leading crops (in the order of their importance as judged by value) are: wheat, oats, corn, hay and forage, barley, and potatoes. Both fruit raising and dairying interests are centered principally in the southern half of the

Forests. In the northern part of the state are extensive pine forests; oak and other hard woods are found in the great forests of the central part. A state forestry board encourages the growth and preservation of the forests and creates forest peserves. There are also national forest reserves within the state. The supply of both hard and soft woods in Minnesota has materially diminished, but there is still considerable

merchantable timber standing.

Fisheries. Stringent game laws of the state for the preservation of game and fish are administered by an efficient state game and fish commission. The fisheries are of great value, are carefully supervised, and systematically replenished by the State Fish Hatchery, at St. Paul, and the Federal Fish Hatchery, at Duluth, in which particular attention is devoted to the

fish of Lake Superior.

Minerals. The rock formations of the state furnish building stone of great value, including granite, sandstone, and limestone. The iron mines of the Vermilion and Mesaba Ranges, in the northeastern part of the state, are very valuable, those of the latter being among the most productive in the world. Ore, which in many places is found in an almost pure state, lies at or near the surface, and the process of mining is comparatively simple and easy.

Manufactures. Minnesota has great diversity of valuable natural resources. Its iron ore deposits are the richest in the country. It is one of the great wheat-producing states, and its timber lands are still extensive. The iron mines do not contribute directly to the state's manufactures, because the ore is shipped to eastern blast-furnaces. The wheat-fields and the forests, however, furnish raw materials for the two most important industries of the state. The transportation facilities, both by rail and water, are excellent. St. Paul-Minnesota (Twin-Cities) form one of the most important centers for transcontinental railway traffic, while Duluth.

at the western end of Lake Superior, reports larger shipments by water than any other city on the Great Lakes, and ranks as one of the important ports of the United States. The leading industries of the state (given in the order of value of product) are the manufacture of flour-mill and grist-mill products; lumber and timber products; slaughtering and meat packing; and butter, cheese, and condensed milk.

Education. At the head of the school system is a state superintendent of public instruction, appointed by the governor; there are also county superintendents, and a state high school board which has general supervision of the schools and apportions the state aid. The schools are supported by a state tax, and by the proceeds of a permanent school fund. The public schools include all grades from the primary, district, and rural schools, to the state university. compulsory education law requires a complete school census, makes poverty no excuse for non-attendance, allows children to be excused from attendance if their bodily or mental condi-tion necessitates it, or if they have finished the work of the eighth grade; and, except in cities of the first and second class, permits children over fourteen to be excused between April 1st and November 1st, if their help is needed "in any permitted occupation in or about the home." A new law regulates prices of text-books, and on the vote of the district or of the school board, books may be supplied free or sold at cost. There are state normal schools at Winona, Mankato, St. Cloud, Moorhead, and Duluth. The University of Minnesota, at Minneapolis, is one of the largest and most perfectly organized educational institutions in the country. Other schools for advanced education in Minnesota are Hamline University (Methodist Episcopal), at St. Paul; Macalester College (Presbyterian), at St. Paul; Augsburg Seminary (Lutheran), at Minneapolis; Carleton College (non-sectarian), and St. Olaf (Lutheran), at Northfield; Gustavus Adolphus College (Lutheran) at St. Peter; Parker College (Free Baptist), at Winnebago City; St. John's University (Roman Catholic), at Collegeville; and Albert Lea College (Presbyterian, for women), at Albert Lea.

Government. The state is governed under the constitution adopted in 1857, and its amend-The qualifications for the suffrage require that the voter be at least twenty-one years of age, and that he shall have been a citizen of the United States for three months prior to the election, and shall have lived in the state for six months and in the election district for thirty days. Women may vote for school officers and members of library boards, and are eligible to any offices pertaining to the management of schools or libraries. EXECUTIVE. The state's officers include a governor, lieutenant-governor, secretary of state, treasurer, and attorneygeneral, elected biennially in November of the even number years; and an auditor elected at the same time for four years. The veto power

of the governor extends to separate items of appropriation bills. Legislative. The legislative department consists of a Senate and House of Representatives. The legislature meets at St. Paul, biennially, (odd number years), the sessions being limited to ninety days. A majority of all the members elected to each house is required for the passage of a bill, and a two-thirds majority is necessary to pass a bill over the governor's veto. All bills for the raising of revenues must originate in the House of Representatives, but the Senate may propose and concur with amendments, as on other bills. Senators are elected for four years and representatives for two years. JUDICIARY. dicial department comprises a supreme court consisting of a chief justice and four associate justices, elected for terms of six years; and lower courts consisting of district courts, with original jurisdiction in civil cases in law and equity, and in criminal cases upon indictments by grand juries: justices' courts, in which the amount in litigation cannot exceed \$100, and the punishment cannot exceed three months imprisonment. or a fine of \$500; and municipal and probate

courts, with the usual jurisdiction. LOCAL GOVERNMENT. The county officers are the county board, prosecuting-attorney, sheriff, coroner, clerk of court, auditor, treasurer, and surveyor, all elected by the people.

History. Before the coming of Europeans, Minnesota was occupied by two powerful Indian tribes, the Ojibways (or Chippewas), who occupied the northern portion and the region along the Mississippi River, and the Sioux (or Dakotas). who made their homes in the south and west. The region was first explored by the French near the end of the 17th Century. That part of Minnesota which lies east of the Mississippi River belonged to the Northwest Territory. acquired by the United States in 1783. West of the Mississippi, it was a part of the Louisiana Purchase of 1803. In 1837, the Chippewa Indians surrendered all the land east of the Mississippi. Immigration then began, and Minnesota became a territory in 1849, and a state in 1858. In 1862 occurred a terrible massacre by the Sioux Indians, who in ten days killed some 800 persons.

MISSISSIPPI

MISSISPII, one of the East South-Central states of the Union, lies between latitudes 30° 44′ and 35° N., and longitudes 88° 7′ and 89° 31′ W. It is bounded on the N. by Tennessee; on the E. by Alabama; on the S. by the Gulf of Mexico and Louisiana; and on the W. by Louisiana and Arkansas. The state has an extreme length of about 300 m. from N. to S., and an extreme width of about 160 m., and ranks thirty-first in area (46,865 sq. m., of which 503 sq. m. are water surface) among the states of the Union.

Coast. The coast line, slightly over 80 m. long, is bordered by a beach of white sand, and broken by a number of shallow indentations, among which are St. Louis, Biloxi, and Pascagoula Bays. Separated from the coast by the shallow Mississippi Sound is a chain of low sand islands, the largest of which are Petit Bois,

Horn, Ship, and Cat.

Relief. The greater portion of the state lies within the area of the Gulf Coastal Plain. Along the Gulf coast is a low marshy tract, and to the north of this is the great level pine region (or "cow country") which at one time covered the greater part of the southern third of the state. That portion lying between the Yazoo and the Mississippi Rivers is known as the Yazoo Delta. It consists of alluvial bottom lands and covers an area of about 7,000 sq. m. (four and one-half millions of acres). With the exception of a few flat ridges running from north to south, it is so low that it has been necessary to protect, it from overflows by a strong unbroken line of levees averaging fifteen feet in height. Along the eastern border of this Delta and southward along the Mississippi, runs a belt of hills or bluffs known as the "cane-hills." This high-

land belt is deeply broken by water-worn ravines, and, though very narrow in the north, the belt has in the south an average width of about twelve miles. The highest elevations in the state,



from 600–700 ft. above the sea, are on the Pontotoc Ridge in Tippah and Union Counties, and from this ridge there is an almost imperceptible slope to south and west. Along the margins of valleys there are hills rising from 30–120 ft., but away from the water courses

the differences in elevation are slight.

Drainage. A small area in the northeastern part of the state is drained to the Tenneessee. Most of the northeastern portion is drained by the Tombigbee. The Pontotoc Ridge separates the drainage system of the Mississippi from that of the Tombigbee. This ridge, extending southward from the northeastern part of the state, divides in Choctaw County, the eastern branch separating the drainage basin of the Pascagoula from that of the Pearl, and the western branch separating the drainage basin of the Pearl from that of the Big Black and the Mississippi. The Pearl and the Pascagoula Rivers drain most of the southern portion of the state and flow into the Gulf. The Delta is drained chiefly by the Yazoo. Each of the larger rivers has many small tributaries; their fall is usually gentle and uniform. The valleys vary in width from a few hundred yards to several hundred miles, and in the eastern part of the state much of the valley of each of the larger streams is several feet above the stream's high-water mark, and forms the "hommock" or "second bottom" lands. Many of the rivers flowing into the Gulf are obstructed by sand bars and navigable only during high water from January to April. A few small lakes and bayous are found in the Delta section.

Climate. The greater part of the state lies in the subtropical belt, and has a climate marked by high summer and annual temperatures, and by mild winters. The normal annual temperature of the state is 64° F.; on the coast it is 67°, and on the northern border 61°. During the summer temperatures are affected as much by altitude as by latitude, and the coast is cooled by night by breezes from the Gulf. The July mean is 82° F. in the southern part of the state, and 83° in the west-central part. The normal annual precipitation for the southern part of Mississippi is 54 in., and for the northern part about 49 inches. An average of 4 in. of snow falls in the northern part, but south of Natchez snow is seldom seen. The prevailing winds are from the southeast, but the rain bearing winds are chiefly from the southwest, and the

high winds from the northwest and west.

Agriculture. The most fertile soil is the alluvium of the Delta, and others that are exceedingly productive are the black calcareous loam of the prairies in the northeastern part of the state. The less valuable soils are the yellow loam of the hills in the northeast, and the sandy loams in the pine belt of the south. Of the state's entire land area more than three-fifths is in farms. The percentage varies widely in the different counties, but the most common proportion is 60 to 80 per cent. For the state as a

whole, the average value of farm land per acre is \$13.69. Statistics show a slight increase in farm acreage and a much greater increase in the number of farms,—a fact which indicates that the average size of farms is decreasing. The total value of farm property, which includes that of land, buildings, implements and machinery, and live stock indicates an increase of nearly 110 per cent in the past ten years. The average size of a Mississippi farm is 67.6 acres, as compared with 308.9 acres in 1850. The leading crops, ranked in the order of their importance as judged by value, are: cotton, corn, forest-products, all forms of vegetables (other than sweet potatoes and yams), hay and forage, oats, dried peas, and potatoes, including sweet potatoes and yams. The acreage of cotton is about one and one-half times as great as that of the combined cereals, and its value is considerably more than three times as great. Corn is the leading cereal, this crop constituting more than 95 per cent of the total acreage and value of the combined cereals. Sugar-cane is grown principally in the southern part of the state, but sorghum cane is grown to some extent in nearly every county of the state. Great advance has been made in the growth of market-garden products and small fruits, and in the cultivation of orchard trees and grape-vines.

Forests. In the extreme south most of the merchantable timber has been cut, but north of this there are still large quantities of valuable long-leaf pine. In the marshes of the Delta is much cypress, on the rich upland soil are oak and red gum, also cotton wood, hickory, and

maple.

Fisheries. Fishing is a minor industry confined for the most part to the Mississippi Sound and its waters, and to the Mississippi and Yazoo Rivers. The most valuable is the oyster fishery on the reefs in the sound. Shrimp fishing is also of economic importance.

Minerals. The mineral wealth of the state is limited. The state contains deposits of iron gypsum, marl, phosphate, lignite, ochre, glasssand, tripoli, fullers' earth, limestones and sandstones, and there are small gas flows in the Yazoo Delta, but there is no mining enterprise. Large quantities of mineral water, sulphur chalybeate, and lithia, are bottled at several

points.

Manufactures. The transportation facilities are good, as the state has direct connection with several large railroad systems of the Middle West. It is bordered practically its entire length by the Mississippi River, and the proximity to the port of New Orleans by means of this river places the state in a favorable position for domestic or foreign shipments. Though Mississippi is not preëminently a manufacturing

state, its manufactures have somewhat more than kept pace with the growth of population During 1849-50 only 0.5 per cent of the total population was employed in manufactures, whill 2.8 per cent of the total population were so en

gaged in 1910. The most important industries (arranged in the order of value of products) are: lumber and timber products, cottonseedoil and cake, cars and general shop construction and repairs by steam railroad companies, cotton

goods, fertilizers, turpentine, and rosin.

Education. The public schools of Mississippi are subject to the supervision of a state superintendent of public education, and of a state board of education, composed of the superintendent, the secretary of state, and the attorney-general; and within each county of a county superintendent. The schools are supported by a poll-tax, by general appropriations, by the Chickasaw school fund, and by local levies. There is no law for compulsory attendance at school; white and colored children are taught in separate schools, but the equipment and service are approximately equal. Among the institutions for higher learning are: the University of Mississippi (coeducational) Oxford; the Agricultural and Mechanical College near Starkville, in Oktibbeha County; the Mississippi Industrial Institute and College for girls at Columbus; and the Alcorn Agricultural and Mechanical College for negroes at Westside. The state normal and training school for teachers is at Hattiesburg.

Government. The present constitution of Mississippi was adopted in 1890. In addition to the ordinary suffrage qualifications as to age, sex, and residence, the voter must have paid all taxes due from him for the two years immediately preceding the election, and he must be able to read any section of the constitution or be able to explain the same when read to him, or give a reasonable interpretation thereof. Execu-The chief executive officials are: the governor, lieutenant-governor, secretary of state, treasurer, auditor, attorney-general, and superintendent of education, all of whom are chosen

for terms of four years. The governor, treasurer, and auditor, are ineligible for immediate reëlection. The governor may call extraordinary sessions of the legislature, may grant pardons and reprieves, and may exercise a power of veto which extends to items in appropriation bills; a two-thirds majority of the legislature is necessary to pass a bill over his veto. His appointing power is limited, as nearly all officials. except judges, are elected by popular vote. Legislative. The legislature consists of a Senate and House of Representatives, chosen for four years. It meets at Jackson biennially (odd number years), and is unrestricted as to length of session. JUDICIARY. The judiciary consists of a supreme court of three judges. thirteen circuit courts, seven chancery courts, county courts, and justices of the peace courts. The governor, with the consent of the senate. appoints supreme court judges for a term of nine years, and circuit and chancery judges for four years. Local Government. judiciary officers are the county board of supervisors of five members, and the justices of the Other county officials are the sheriff, treasurer, coroner, surveyor, assessor, and the superintendent of education.

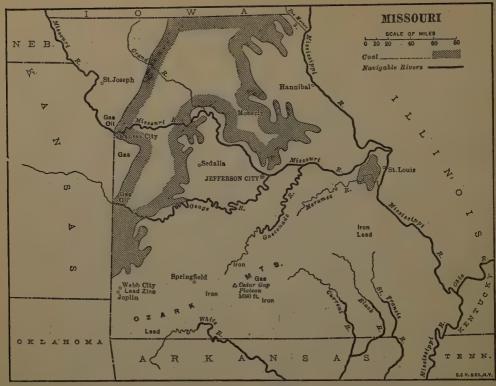
History. Mississippi was visited by De Soto in 1540. The Mississippi River was explored by Marquette and La Salle in 1681. An attempt was made at settlement by the French at Iberville in 1699, and a settlement was made on the site of Natchez in 1716. It was ceded by France to Great Britain in 1763, part was ceded to the United States in 1783, and the remainder was acquired in 1811. Mississippi was organized as a territory in 1798, and was admitted to the Union as a state in 1817. It seceded in 1861 and was readmitted into the Union in 1870. It was the scene of various conflicts in the Civil War, including the Siege of Vicksburg in 1863.

MISSOURI

MISSOURI, a West North-Central State of the United States, lies mainly between latitudes 36° 30′ and 40° 35′ N., and longitudes 89° 10′ and 95° 48′ W. Much of the western boundary is the meridian of 94° 43' W. It is bounded on the N. by Iowa; on the E. by Illinois, Kentucky, and Tennessee; on the S. by Arkansas; and on the W. by Oklahoma, Kansas, and Nebraska The length of the state from north to south, counting the southeastern proiection, is 328 m.; without the southeastern projection it is 282 miles. The width from west to east varies from 208 to 308 miles. In size. Missouri ranks eighteenth among the states of the Union (having a gross area of 69,420 sq. m., of which 693 sq. m. are water surface).

Missouri has three chief physiographic regions: a lowland in the extreme southeast, a northern upland plain or prairie region. and between these the Ozark uplift region. North of the Missouri River is the prairie region

of the state, a beautiful rolling country with a great abundance of streams, more hilly and broken in its western than in its eastern half. It has a general elevation above the sea of about 850 ft., ranging from 500 ft. along its eastern margin to 1.200 ft. in the northwest. of the Missouri River the surface is more diversi-It embraces open and comparatively treeless plains in the western counties, continuous with the prairies of Kansas. To the east of this limited plains section of the state lies the great Ozark Region, occupying nearly twothirds of the total area of Missouri. Its southeastern boundary may be indicated by a line drawn from Cape Girardeau due southwest to the Arkansas boundary. This physiographic region is divided by minor escarpments into ten or twelve subregions. As a whole, it is in reality, a rolling plateau, much broken by erosion, but with numerous undissected areas drained by underground channels. It is domi-



nated by a ridge, or a belt of highland, that runs from the Mississippi at about Ste. Genevieve County, to Barry County on the Arkansas border, and is continued into Arkansas, in which state it attains its greatest elevation. highest points in the state are Iron Mountain (about 1,110 ft.), in Iron County, and Cedar Gap Plateau (1,690 ft.), in Wright County; but few localities have an elevation exceeding 1,400 feet. Rather broad, smooth valleys, hills with rounded summits, and generally uniform contours characterize the whole of this Ozark Re-The extreme southeastern part of the state is a lowland area, in places marshy, but for the most part well drained and well timbered. Caves, chiefly of limestone formation, occur frequently in and near the Ozark Mountain Region in the southwestern part of Mis-More than one hundred are found in Stone County alone, and there are many in Christian, Greene, and McDonald Counties. Of these caves, the most remarkable is Marble Cave in Stone County

Drainage. The entire eastern boundary is washed by the Mississippi River, with a water front of 560 miles. The general drainage of the surface is indicated by long gentle slopes toward the Mississippi and Missouri Rivers, except in the southwest where the streams flow into the

Arkansas. The Missouri forms the western boundary for a distance of 208 m., and entering the state at Kansas City, crosses it and empties into the Mississippi north of St. Louis, its length between the eastern and western borders being 430 miles. The drainage of the state is wholly into the Mississippi, either directly or indirectly. By means of the Mississippi and the Missouri, the state has water connection with the Gulf of Mexico, and with almost every state in the Mississippi Valley. Of the minor streams within the state, the Osage, Grand, Meramec, Salt, Gasconade, White, St. Francis, and Current. have had or have some value as navigable streams. The Mississippi is skirted with lakes, lagoons, and morasses, from Ste. Genevieve to the Arkansas border, and in places is confined by levees.

Climate. The inland position of the state gives to it a climate of marked continental type, with wide range of moisture and temperature. The mean annual temperature for the entire state is 54°, for the southeastern corner 60°, and for the northwestern 50° F. At Jefferson City there are occasionally two months of freezing weather; and at Rockport three months. Temperatures as high as 100° to 105° and as low as -20° or -30° are recorded locally almost every year. At St. Louis, where the summer heat at

times reaches 105° to 110° the winter cold sometimes falls to -10° and even to -20° F. The average yearly rainfall, for the state as a whole, is 41 to 60 inches. The prevailing winds are southerly, although west winds are common in winter. The average fall of snow ranges from about 8 in. in the southeast counties to about 28 in. in the northwest counties. The Missouri River is often closed by ice, and the Mississippi at St. Louis sometimes freezes over so that for weeks together horses and wagons can cross on the ice. The state lies in the path of cyclonic storms.

Agriculture. The soils of the state as a whole are rich, deep, and unsurpassed in variety and productiveness. The northern half of the state is well watered and extremely fertile. South of the Missouri the Prairie Region, along the western border, shares the characteristics of the country north of the Missouri. The Ozark region is more noted for its mineral than its agricultural production, but some of its small valleys contain excellent agricultural The southeastern lowlands are rich to an exceptional degree. Missouri as a whole, is preëminently an agricultural state. The leading crops (in the order of their importance as judged by value) are: corn, hay and forage, wheat, oats, potatoes, and cotton. The raising of live stock, especially of horses, mules, and swine, is a great and growing industry. dairy and poultry interests are extensive. Orchard fruits, small fruits, and grapes are produced in large quantities. Missouri is one of the great wine-producing states of the country.

Fisheries. The fisheries of the state are

Fisheries. The fisheries of the state are under the direction of a state fish commission, which endeavors to increase the common varieties of river fish. So far as they are articles of general commerce they come, like frogs, terrapin, and turtles, mostly from counties of the Embayment Region. The mussel fisheries are commercially important, as the shells are used in the manufacture of pearl buttons. There are state fish hatcheries at St. Louis and St. Joseph.

Forests. The most valuable forests are in the southern half of the state. The finest woods are on the eastern upland, and on the Missispipi lowland. Ash, oaks, black-gums, sweetgums, chestnut, hickories, hard maple, beech, walnut, and short-leaf pine are noteworthy among the trees of the Carolinian area; the tupelo and bald cypress of the Embayment Region; and long-leaf and lobolly-pines, pecans, and live-oaks, of the uplands. The heavy timberlands of the entire state have already been considerably exploited.

Minerals. The mineral resources are exceedingly rich, comprising coal fields that cover more than 20,000 sq. m.; also fine deposits of iron ore, lead, and zinc, while copper, cobalt, nickel, fire-clays, fine marble, granite, and limestone abound. Missouri is the largest producer in the Union of tripoli and barites. Mineral waters occur widely.

Manufactures. Missouri ranks high as a manufacturing state, its prominent position in this respect being largely due to its agricultural and mineral wealth, to its excellent transportation facilities by both water and rail, and to the location of cities in close proximity to raw materials. St. Louis, St. Joseph, and Kansas City are the great manufacturing centers of the state. Measured by value of products, the leading industry of the state is slaughtering and meat packing. The prominence of this industry is owing to the facts that Missouri is the center of a hog raising area, is one of the great corn growing states, and has extensive feeding and grazing areas for cattle in the prairies of northern Missouri and for sheep in the Ozarks of southern Missouri. The manufacture of boots and shoes is second in importance among the industries of the state, and holds the same rank with respect to the other states of the Union. While holding second rank as regards value of product, it is first in the number of wage-earners employed. Third among the industries of the state in the value of products are flour-milling and grist-milling. The fourth place among the in-dustries of the state is occupied by printing and publishing. This includes the making of books, newspapers, periodicals, and music. Brewing, lumbering, and the manufacture of timber products, are among the great industries. The logging and milling operations are confined largely to the wooded Ozark Region of southern Missouri, but many of the planingmills and box factories are located in cities; with the exception of the boot and shoe factories, this industry gives employment to more persons than any other industry.

Education. The maintenance of a free public school system was placed on a broad and firm foundation by the constitution of 1875. The state schools include, besides primary, graded, and high schools, normal schools and a state university. School attendance is compulsory for children from eight to fourteen years of age, for not less than three-quarters of the school term. The public schools are under the supervision of a state superintendent of education. The University of Missouri, at Columbia, comprises in addition to the college proper special schools of pedagogics, agriculture and mechanic arts, mines and metallurgy, law and medicine, fine arts, engineering, military science, a graded school of arts and sciences, and a department of journalism. An experiment station, supported by the national government, is part of the school of agriculture. The State Board of Agriculture organizes farmers' institutes, and agriculture is also taught in the normal schools of the state. Of these there are five, located at Kirksville, at Warrensburg, at Cape Girardeau, at Springfield, and at Maryville, and there is a normal department in connection with the Lincoln Institute for Negroes, at Jefferson City. Lincoln Institute for negro men and women has agricultural and industrial,

special normal, normal, and collegiate departments. Among privately endowed schools the greatest is Washington University (non-sectarian), in St. Louis. Among many other educational institutions are the St. Louis University and Christian Brothers College (both Roman Catholic), at St. Louis; William Jewell College (Baptist), at Liberty; Missouri Wesleyan College (Methodist Episcopal), at Cameron; Park College (Presbyterian), at Parkville; Drury College (Congregational), at Springfield; Tarkio College (United Presbyterian), at Tarkio; and Central Wesleyan College (Methodist Episcopal), at Warrenton. There are many minor schools and colleges, most of them being coeducational, and special academies and colleges for women, are maintained by different sects. There are numerous professional schools, most of them at St. Louis and Kansas City.

Government. Missouri is governed under the constitution of 1875 and its amendments. The right of suffrage extends (with the usual exceptions) to all male citizens, and to aliens who five years before election have declared their intention of becoming citizens, but all who vote must have been resident in the state one year, and in the county or city sixty days next preceding the election. EXECUTIVE. The chief executive officers of the state are the governor, lieutenant-governor, secretary of state, auditor, treasurer, attorney-general, and superintendent of education. The term of the governor and other chief executive officers is four years. LEGISLATIVE. The legislature, or General Assembly, is composed of a Senate and a House of Representatives. It meets biennially (odd number years), at Jefferson City. Its sessions are limited to seventy days. Senators are elected for four years, and representatives for for two years. JUDICIARY. The state judiciary

comprises a supreme court of seven members, elected for terms of ten years; three courts of appeal with three judges, each elected for terms of twelve years; thirty-seven circuit courts with fifty-six judges, elected for terms of six years. Local Government. The unit of local government is the county, of which the principal officers are a probate judge, prosecuting-attorney, sheriff, coroner, clerk of court, county clerk, county assessor, county treasurer, county surveyor, and superintendent of schools, all elected by the people. The township system may be adopted by county option, but it has not been widely established, though purely administrative tewnships are an essential part of state administration.

History. The territory included in the present state of Missouri formed part of the French colony of Louisiana. Ste. Genevieve was settled in 1735, and Ft. Orleans, on the Missouri River, had been temporarily established in 1720, but little had been done in the way of settlement before the transfer of Louisiana to Spain in 1763. St. Louis was founded in 1764. It was ceded back to France in 1800; formed part of the Louisiana Purchase of 1803; and was included in Louisiana Territory in 1805. Missouri Territory was formed in 1812, and Missouri was admitted to the Union as a slave state in 1821. The state did not receive its exact present limits until 1835. In the Kansas troubles of 1855, the citizens of the western border took an active part against the free state movement. At the outbreak of the Civil War, in 1861, the people of Missouri were divided with regard to secession, but the unionists finally prevailed. The state was the theatre of several active campaigns during the war. A world's fair was held in St. Louis in 1904 to commemorate the Louisiana Purchase.

MONTANA

MONTANA, a Mountain State of the United States, lies between latitudes 44° 26′ and 49° N., and longitudes 104° and 116° 1′ W. It is bounded on the N. by the Canadian provinces of British Columbia, Alberta, and Saskatchewan; on the E. by North and South Dakota; on the S. by Wyoming and Idaho; and on the W. by Idaho. It has an extreme length from east to west of 580 m., and an extreme width from north to south of 315 miles. In gross area it ranks third among the states of the Union (146,997 sq. m., of which 796 sq. m. represent water surface).

Relief. The eastern two-thirds of Montana lies within the Great Plains Region, the western third is occupied by ranges of the Rocky Mountain System. The Great Plains section of the state consists of a high-ridged bluff, across which the Missouri River and its principal tributaries have cut broad valleys and deep gorges. The main range of the Rocky Mountains enters the state from Canada as the main divide, extends in a southeasterly direction for about 200 m.,

and then curves westward until it reaches the western boundary of the state, at the junction of the Bitter Root Mountains with the main chain. The Bitter Root Mountains form about half of the western boundary. This range has a maximum elevation at its southern end of about 9,000 ft. above the sea. To the east and northeast of the Bitter Root Mountains is a considerable area of moderate relief traversed by numerous short ranges, to the southeast of which are many lofty and rugged ranges which radiate in all directions, and in many instances rise to heights of 10,000 to 11,000 feet. The highest point in the state is Mount Douglas (11,300 ft.) in Sweet Grass County. The Great Plains in Montana slope from about 4,000 ft. above the sea at the foothills of the mountains to an elevation of 2,000 ft. in the northeast of the state.

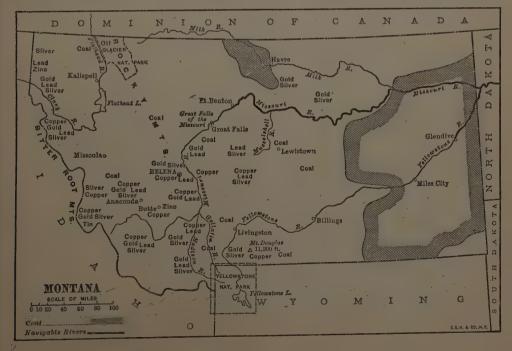
Drainage. The main range of the Rocky Mountains separates that part of the state which is drained west into the Columbia River and the

Pacific Ocean, from that which is drained east into the Missouri and Mississippi Rivers and the Gulf of Mexico, and from a very small part which is drained northeast into Hudson Bay. The principal rivers east of the Rockies are the Missouri and its tributaries, the Milk, the Musselshell, and the Yellowstone. The Missouri is formed by the union of the Jefferson, the Madison, and the Gallatin Rivers, or Forks, which rise in the Rocky Mountains and unite in Gallatin City. About 16 m. east of Helena the Missouri River passes through a deep canyon or gorge 5 m. long, where the scenery is sublime and imposing. At Great Falls are the Great Falls of the Missouri, where the river descends over 500 ft. in 10 m. by a series of cataracts, the highest of which has a perpendicular fall of about 90 feet. Forty miles below the Great Falls is Fort Benton, the head of steamboat navigation, and from there the general course of the Missouri is eastward until it enters North Dakota. The Missouri is a muddy stream, with a generally erratic and frequently shifting channel. The Yellowstone, the principal tributary of the Missouri, enters the state from the Yellowstone National Park, runs northward through a mountainous country, then northeastward through the plains, and enters the Missouri a short distance east of the North Dakota boundary. Its mouth is about 2,000 ft. above sea level. During high water steamboats can ascend it to the mouth of the Big Horn, 300 m. or more. The principal

rivers west of the main divide of the Rockies are the Clark Fork of the Columbia and its principal tributary, the Flathead, which rises in British Columbia. Small lakes and waterfalls are numerous in the mountains, the largest lake in the state being Flathead, or Selish Lake, about 27 m. long and more than 1,000 ft. deep.

Climate. The mean annual temperature ranges from 37° F. in the northeast to 47° F. in the valleys among the mountains. On the Great Plains a temperature of -40° in the winter and 100° F. in the summer are not unusual, but in the mountain valleys the range is rarely greater than from -20° to 90° F. In the east the winters are often long and very cold, and the summers dry and hot. In the west the climate is generally delightful, it being there greatly affected by the warm Chinook wind, which blows from the Pacific Ocean. This is the prevailing wind of winter in the mountains and in consequence the periods of cold, though severe, are short. The average annual precipitation ranges from 10 to 15 in. on the Great Plains, to 20 in. or more in the northwest, and over limited areas in the higher mountain region. Nearly one-half of the rain falls during the growing months from May to August, inclusive.

Agriculture. A considerable amount of land, lying principally in the valleys of the mountainous region which occupies the southwestern and central parts of the state, is under irrigation. The plains are devoted very largely to



dry farming and to the cattle industry. In nearly all sections of the state, however, by means of intensive cultivation and summer fallowing, grain can be grown without irrigation. A small section in the northwest corner of the state receives sufficient rainfall to be classed as humid. The leading crops of the state (in the order of their importance as judged by value) are: wheat, hay and forage, oats, flaxseed, and potatoes. Flaxseed has an important acreage, greater than that of barley. Fruit is now very widely cultivated in the state. The raising of sheep, cattle, and other live stock is important, the east being devoted chiefly to that industry. Montana has more sheep and produces more wool than any other state in the Union.

Forests. Much of the woodland area has been burned over. Woodlands are confined mainly to the mountain slopes, and more than three-fourths of the forest areas have been set apart as national forests. A large part of the woodland contains no trees fit for lumber. More than half of the product is yellow pine and the remainder principally red fir and tamarack. Hardwood timber is almost entirely lacking in

the state.

Minerals. Montana has great mineral resources, and mining is the leading industry of the state. It contains the largest copper producing district in the world. The most important copper mines are in Silverbow, Broadwater, Jefferson, and Beaverhead Counties. The other mineral products (arranged in the order of their importance as judged by value) are: silver, coal, and gold. Lignite coal beds underlie the eastern half of the state. In the mountain districts are the bituminous coal beds. Granite, sandstone, and limestone are abundant in the state, but have been little developed.

Manufactures. As a manufacturing community, Montana makes some progress, but the leading industries of the state are those connected with or supplementary to the mining interests. In the order of value of products, the chief manufacturing industries are: copper smelting and refining, lumber products, malt liquors, and flour- and grist-mill products.

Education. At the head of the public school system is a state superintendent of public instruction. In each county there is a county board of education and a county superintendent. The common school of each district is under the immediate supervision of a board of trustees, but a state text-book commission determines what text-books shall be used in the schools. Each school district is required by law to keep its school open at least three months a year, and all children between the ages of eight and fourteen are required to attend for the full term; if unemployed they are required to remain in school until they have attained the age of sixteen. Manual and industrial training is a part of the public school curriculum, and school districts with a population greater than 5,000 must (others may) establish one manual training school. The leading state educational institution is the University of Montana, at Missoula, and associated with it are the Normal College, at Dillon; the College of Agriculture and Mechanic Arts, at Bozeman; and the School of Mines, at Butte. The entire educational system is maintained very largely out of funds derived from land appropriated by Congress for that purpose.

Government. The state is governed under a constitution adopted in 1889, and its amendments. General suffrage is conferred upon all male and female citizens of the United States who have attained to the age of twenty-one years, have lived in the state for one year, and in the county for thirty days immediately preceding election. Excluded from the suffrage are idiots, insane persons, felons not pardoned, Indians who have not severed tribal relations, and soldiers, sailors, and marines in the United States service. EXECUTIVE. The chief executive officers of the state are the governor, lieutenantgovernor, secretary of state, attorney-general, treasurer, auditor, and superintendent of public instruction—each of whom is elected for a term of four years. No person is eligible to any of these offices who has not lived within the state for two years next preceding the election. The governor, lieutenant-governor, and superintendent of public instruction must be at least thirty years of age; the secretary of state, treasurer, and auditor at least twenty-five years of The governor appoints various administrative officers, subject to the approval of the Senate. His pardoning power is subject to the approval of a majority of the board of pardons. His veto may be overridden by a two-thirds vote of the members present and voting in each house. LEGISLATIVE. The legislature consists of a Senate and House of Representatives. Except when called in special session by the governor, it meets at Helena on the first Monday of January in odd number years only, and the length of its session is limited to sixty days. Members of the Senate, one from each county, are elected for a term of four years; representatives, one or more from each county, according to population, are elected for a term of two years. A senator must be at least twenty-four years of age and have resided in his county or district for at least one year next preceding his election. The qualifications required for a representative are the same as those required for the suffrage. JUDICIARY. Justice is administered by a supreme court, an increasing number of district courts, and at least two justice's courts in each organized township, besides police and municipal courts. The supreme court is composed of a chief justice and two associate justices, elected for a term of six years. For most district courts there is only one judge, but for the more populous districts there are two; they are all elected for four years. Justices of the peace are elected for two years. Local Government. purposes of local government the state is divided into counties; each county into townships, school districts, and road districts; and there are incorporated cities and towns. The county officers are a board of three commissioners, a treasurer, a sheriff, a county clerk, a clerk of the district court, an attorney, a surveyor, a coroner, a public administrator, an assessor, a superintendent of schools, and in some instances an auditor. The principal township officers are two justices of the peace and two constables. Municipal corporations are classified according to population: cities having 10,000 inhabitants or more are of the first class; those having more than 5,000 but less than 10,000, are of the second class; those having less than 5,000 but more than 1,000, are of the third class; and those having less than 1,000 but more than 300 inhabitants are towns.

History. The portion of Montana east of the Rocky Mountains was part of the Louisiana Purchase (1803); that to the west was part of Oregon and Washington. It was first visited by the French in 1742, and by Lewis and Clark in 1804-'06; these explorers were followed by fur traders and trappers and by Jesuit missionaries. The part of Montana which was included in the Louisiana Purchase became successively a part of Missouri Territory (1812), of Nebraska Territory (1854), of Dakota Territory (1861), and of Idaho Territory (1863); that which lies west of the mountains became successively a part of Oregon (1848), of Washington Territory (1853), and of Idaho Territory (1863). Gold was discovered in 1861. In 1864, the territory was organized and in 1889 Montana became a state of the Union.

NEBRASKA

NEBRASKA, one of the West North-Central States of the United States, lies between latitudes 40° and 43° N., and longitudes 95° 10′ and 104° 4′ W. It is bounded on the N. by South Dakota; on the E. by Iowa and Missouri; on the S. by Kansas and Colorado; and on the W. by Colorado and Wyoming. The extreme length of the state from east to west is about 425 m., and the extreme breadth from north to south 210 miles. In gross area, (77,520 sq. m., of which 712 sq. m. represent water surface) Nebraska ranks fifteenth among the states

of the Union.

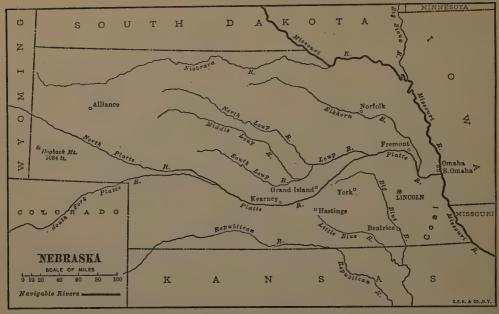
Relief. Nebraska lies in the Prairie Plains and Great Plains provinces of the United States, only about one-fifth of its area being included in the former division. The surface slopes gently eastward and southeastward from an altitude of approximately 5,000 ft. in the extreme western portion of the state, to an altitude of about 900 ft. in the southeast. There are three physiographic subdivisions—the Prairies, the Sand Hills, and the Foot Hills (including the Bad Lands). The eastern portion of the state is rolling and somewhat dissected by the major drainages. High bluffs, cut by ravines, border the Missouri. Between the meridians of 98° and 103° W. longitude, including an area of approximately 20,000 sq. m., is the Sand Hills portion of the state. The present contours of these hills are wholly the result of wind action; formerly shifting dunes, they have as a result of occupation and the cessation of prairie fires become well sodded and stable. All about, interpenetrating the Sand Hills region and the Foot Hills region beyond, are the prairies, which include three-fourths of the state. They are usually gently rolling, but sometimes flat over wide areas. The water partings are level up-lands, often with shallow depressions, some of them filled by lakes. Western Nebraska is much more rugged than western Kansas, and the highlands found there are the outliers or

foothills of the Rocky Mountains. In the fork of the North and South Platte are the Wildcat Mountains with summits rising to over 5,000 feet. Pine Ridge, a line of low hills and bluffs, often precipitous, passes across the northwest corner of Nebraska from Wyoming into South Dakota; its altitudes vary from 3,500 to 5,000 feet. This region is known as the Mauvaises Terres (or Bad Lands). The surface is carved out into fantastic cliffs and buttes, bare of vegetation

and baked by the sun.

Drainage. The Missouri skirts the eastern border for nearly 500 miles. It is not navigated, and, save at Omaha and Sioux City, serves practically no economic purpose. Its current is always rapid and heavily loaded with sediment. and its axis frequently shifts. Besides the Missouri, the principal rivers are the Niobrara, the Platte (with its North and South Forks), the North, Middle, and South Loup, the Elk Horn, Lodge Pole Creek, the Republican, the Saline, and the Big and Little Blue Rivers. The Niobrara rises in Wyoming, traverses the sterile Sand Hills of northern Nebraska, and enters the Missouri about 36 m. west of Yankton, South Dakota. The Platte River, a wide shallow stream, is formed by the North and South Forks, which rise among the Rocky Mountains in Colorado and unite in Lincoln county. It traverses the vast undulating plains of Nebraska, and enters the Missouri about one mile above Plattsmouth. It is about 450 m. long, or including the North Fork, 1,250 miles. The Republican River, an intermittent stream, drains the extreme southern part of the state. Numerous lakes, both fresh and alkaline, are scattered about the heads of streams in the Sand Hills. Nearly all counties have a practically inexhaustible supply of ground water. In some small and exceptional regions, the water is alkaline.

Climate. The climate of Nebraska is characterized by winters of considerable severity,



unusually warm summers, marked and sudden changes of temperature, large seasonal and daily temperature changes, and dry, salubrious atmosphere with a large percentage of sunshine. The range of the mercury is between -40° and 115° F. The rainfall is very unequal, ranging from 30 in. or more in the eastern section, to less than 15 in. in the west, where irrigation is a necessary condition to successful agriculture. The average annual rainfall for the state is about 23½

Agriculture. The prevailing soil of the Upland Prairies in the eastern part of the state is a dark brown silty loam. To the west of this is an area covered by brown and yellow silty loam soils. In the north-central portion of the state; north of the Platte River, is the Sand Hills region, with many small, level, sandy prairies. Here grazing is the prominent agricultural occupation, although many of the more level tracts are coming to be occupied for dry farming. The soils along the northern border of Nebraska are heavy loams and clay loams, suited to grazing and dry farming. The prairies of the extreme western portion of the state are occupied by loams and sandy loams, which support the wild grasses and constitute chiefly a grazing area. Agriculture is the chief industry of the state, 78.6 per cent of its area being in farms. In the extreme western part of the state irrigation is practised to a considerable extent. The general character of Nebraska agriculture is indicated by the fact that nearly four-fifths (78.3 per cent) of the total value of crops is contributed by the cereals, and 16.2 per cent by hay and forage. The remainder is contributed by vegetables, fruits, and minor crops. The leading crops (in the order of their importance as measured by value) are: corn, wheat, hay and forage, oats, potatoes, barley, emmer, spelt, and rye. The raising of flowers and plants and of nursery products is of some importance, the cultivation of small fruits and of orchard fruits is increasing, and the live stock interests are of great import-Apples are raised in the northeastern and southeastern portion of the state. Peaches

are successfully grown.

Forests. No state has done more than Nebraska for the forestation of its waste and prairie lands. Arbor Day (the 10th of April) was instituted by the Nebraska State Board of Agriculture in 1872, and has been yearly observed by the public schools of the state since that time. Forest reserves have been established and millions of seedlings have been planted on the Great Plains. Small woods of broadleaf trees and red cedar grow very generally along all the water courses of the state, and coniferous species grow along Pine Ridge and the Wildcat Mountains. In the east, various trees are readily grown on the uplands; in the west, the honeylocust, the Osage orange, and Russian mulberry are planted for windbreaks. Conifers are spreading naturally, and the forestation of much of the

state is undoubtedly possible.

Minerals. Clay, limestone, sand, and gravel are the only minerals of importance.

Manufactures. Nebraska is not preëminently a manufacturing state, but its manufacturing interests have been rapidly developing during the last fifty years. The manufactures are chiefly in lines immediately dependent upon

agriculture. The combined output of the packing, flour-mill and grist-mill, dairy, and malt liquor establishments constitute nine-tenths of

the total output of the state.

Education. The schools of the state are under the supervision of a state superintendent of public instruction. School attendance is compulsory for children from seven to fifteen years of age, for not less than twelve weeks in the school term. Most of the schools of the state, both public and private, are coeducational. Besides the elementary and high schools there are four state normal schools. The University of Nebraska is located at Lincoln. Connected with it are the state colleges of agriculture and agricultural experiment stations, which receive support from the United States government, and an experimental substation at North Platte. The botanical and geological surveys of the state are carried on by the University, which also embraces a college of arts and sciences, a graduate college, a college of engineering, a teachers' college, colleges of law, medicine, and pharmacy, a school of fine arts, and an affiliated school of music; the medical school is in Omaha. Among the private educational institutions of the state are: the Nebraska-Wesleyan Uniof the state are: the Nebraska-wesieyan University (Methodist Episcopal), at University Place (a suburb of Lincoln); Union College (Adventist), at College View (a suburb of Lincoln); Creighton University (Roman Catholic), at Omaha; York College (United Baptist), at York; Cotner University (Disciples of Christ), at Bethany; Doane College (Congregational), at Crete; Grand Island College (Baptist), at Created Island: Hastings College (Presbyterian). Grand Island; Hastings College (Presbyterian), at Hastings; and Bellevue College (Presbyterian), at Bellevue.

Government. Nebraska is governed under the constitution adopted in 1875, and its amend-All male persons who are citizens of the United States or have declared their intention to become such at least thirty days before an election, have the right of suffrage, provided they have attained the age of twenty-one years, have resided in the state six months, are not of unsound mind, and have not been convicted of treason or felony. Women who have either children or taxable property may vote on questions relating to schools. EXECUTIVE. executive officers of the state are the governor, lieutenant-governor, secretary of state, treas-urer, auditor, attorney-general, superintendent of education, commissioner of insurance, and commissioner of public lands. The governor's appointing power is almost entirely limited to officers of state institutions, and for every appointment he makes the approval of the Senate is required; but he need not have the consent

of that body to remove for incompetency, neglect of duty, or malfeasance in office, any officer whom he may appoint. The law requires that he shall in no instance grant a pardon until the attorney-general shall have investigated the case and conducted a public hearing. His veto power extends to items in appropriation bills, but it may be overridden by the vote of threefifths of the members elected to each house of the legislature. Legislative. The legislature consists of a Senate and House of Representatives. It meets in regular session on the first Tuesday in January of every odd number year, at Lincoln, the capital, its sessions being limited to 60 days. Both senators and representatives are apportioned according to population, and are elected by districts in November of each even number year, for a term of two years. JUDICIARY. The administration of justice is vested in a supreme court, sixteen district courts, county courts, and courts of justices of the peace, and police magistrates. The supreme court consists of seven judges, elected for terms of six years; each district court consists of one to seven judges, elected for a term of four years; and each county court consists of one judge, elected for a term of two years. Local Gov-ERNMENT. County government exists under both the "district commissioner" system and the "township supervisor" system, the latter being rare. The county officers are the county judge, prosecuting-attorney, sheriff, coroner, clerk of court, county clerk, county treasurer, county surveyor, and superintendent of schools. —all elected by the people.

History. French explorers followed the Platte River (or the Nebraska) to the Forks, in 1739. Nebraska passed to the United States in 1803 as part of the Louisiana Purchase, and was explored by several American expeditions after its acquisition. Several trading posts were probably established in Nebraska between 1795 and 1812. In 1823 Bellevue became an Indian agency, and later was the first post-office in the state. Nebraska was one of the two territories created by the Kansas-Nebraska Bill of 1854. There were slaves within its borders from the beginning, but a territorial law of 1861 excluded slavery. As organized in 1854, Nebraska extended from 40° N. latitude to British America, and from the Missouri and White Earth Rivers to the summit of the Rockies; it was reduced to its present boundaries in 1861 and 1863. The state was torn by bitter factional quarrels over the location of the capital and admission to statehood, and during part of 1866 and 1867 there were two de facto governments—the territorial and the state. It was

admitted to the Union in 1867.

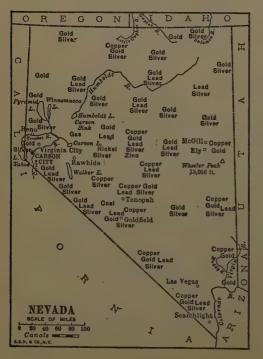
NEVADA

NEVADA, one of the Mountain States of the United States, lies between latitudes 35° and 42° N., and longitudes 114° 2′ and 120° W. It

is bounded on the N. by Oregon and Idaho, on the E. by Utah and Arizona, and on the S. and W. by California. The state has an extreme length from north to south of 484 m., and an extreme width from east to west of 321 miles. In gross area it ranks sixth among the states of the Union (110,690 sq. m., of which 869 sq. m.

represent water surface).

With the exception of small areas Relief. in the northeast and southeast corners of the state, which are drained to the Columbia and Colorado Rivers respectively, the entire state lies in the Great Basin Province, a region whose scanty waters do not flow to the sea. surface is in reality a vast tableland from which rise numerous buttes, mesas, and isolated mountain masses. It is divided by the northsouth mountain ranges into numberless long and narrow basins. The East Humboldt Range, a lofty mass about sixty miles west of the Utah boundary, forms the water parting for nearly all of the westward flowing streams of the state, and is by far the steepest and most rugged within Nevada. A number of peaks of this range attain a height of 11,000 or 12,000 feet. In the Snake Range in White Pine County, near the 39th parallel of north latitude, is Wheeler Peak (13,058) ft.) the highest point in the state. South of the center of the state are the Toyabe Mountains, with several peaks from 10,000 to 12,000 ft. in height. About 100 m. east of the California boundary, in Humboldt and Churchill Counties, lies a third important range, the Humboldt Mountains, whose highest point is Star Peak (9,925 ft.). A lofty spur of the Sierra Nevada



Range, the Washoe Mountains, enters the state and forms the western rim of the Great Basin. The mountain ranges are mostly short and in many cases traversed by relatively low and convenient passes, while the intermediate valleys are sometimes broad deserts, in other cases narrow canyons, or again there are basins of shallow

lakes fed by the mountain snows. Drainage. All the rivers of Nevada are small, but the state includes three drainage basins: in the N. the Owyhee, the Little Owyhee, the Salomon, and the Bruneau Rivers belong to the Columbia system, their waters reaching that stream from the Snake River; in the SE. the Virgin, the Beaver Dam, the Muddy and Vegas Rivers are tributaries of the Colorado. All the other rivers of Nevada end in lakes or sinks, the latter being marshy spots in the desert sands. Of the Basin streams, the Humboldt is the most important; rising in the northeast, it divides diagonally the mountain ranges and valleys, flows in a general southwest course for some 375 m. and empties into Humboldt Lake, the overflow from which goes into the so-called Carson Sink. Near its mouth its waters are subalkaline. The Truckee River, which formerly flowed from Lake Tahoe into Pyramid Lake, has been turned through an irrigation canal to empty into the Carson River. The chief lacustrine waters are these of Pyramid, Winnemucca, Humboldt, Walker, and Carson Lakes. The beautiful Lake Tahoe, with a depth of 1,600 ft., whose surface is at an elevation of 6,500 ft., is on the California boundary.

Climate. The mean annual temperature for the state is 49° F., but varies from 54° in the southwest to 46° in the north. The dryness of the atmosphere mitigates the severe cold of winter and tempers the intense heat of summer. Both hot and cold springs are numerous, with temperatures ranging from 50° to 204° F. The lofty range of mountains on the west deprives the winds from the Pacific of nearly all their moisture before they reach the Great Basinhence the climate of Nevada is characterized by excessive dryness. The mean annual precipitation varies from 3 in. in the southwest to 12 in. in the east. In the central, northeastern, and northwestern sections the average annual rainfall varies from 7 to 8 inches. Except at great altitudes, snow falls and lies on the ground for only a few days each year. The melting of the mountain snows in the spring causes severe freshets, which in turn are followed by long

seasons of drought.

Agriculture. The prevailing soils are sand and gravel loams, but other varieties are numerous, ranging from rich gravelly beds of extinct lakes, as in Lyon and Esmeralda Counties, to the strongly alkaline plains of the southern deserts. The most productive part of the state is the Humboldt valley and the region near Pyramid Lake, including the counties of Elko, Humboldt, and Washoe. Agriculture in Nevada

is dependent on irrigation, which is practised throughout the state wherever water is available. The three principal areas in which irrigation is practicable are along the Humboldt River, in the plains watered by the Carson, Truckee, and Walker Rivers, and at the foot of the mountains along the western edge of the state. The soil when reclaimed is well adapted for forest crops, cereals, vegetables, and de-ciduous fruits. Nevada is a great ranching country, and the live stock industry is one of the most important in the state. Only 3.9 per cent of the state's entire land area is in farms. The general character of Nevada agriculture is indicated by the fact that only 15.6 per cent of the total value of crops is contributed by the cereals, while 70.7 per cent is contributed by hay and forage, and 11.2 per cent by pota-toes and other vegetables. The leading crops of the state (in the order of their importance as judged by value) are: hay and forage, potatoes, wheat, barley, vegetables (other than potatoes,

sweet potatoes, and yams), and oats.

Forests. The valleys are treeless, except in the vicinity of the Truckee River, where considerable quantities of cottonwood and a small amount of willow, birch, and cherry are found. In the Washoe Mountains, as in the rest of the Sierra Nevada Range, there is a heavy growth of conifers extending down to the valleys; but in many places these mountains have been almost deforested to provide timber for the mines. Except for infrequent wooded strips, the mountains of the interior of the state are

even more bare than the valleys. Minerals. In its early days as a territory, thousands of people were attracted to Nevada by the fabulous richness of the Comstock Lode. This lode, perhaps the most remarkable deposit of precious metals discovered in historic times, has produced hundreds of millions of dollars in gold and silver, but is now worked out. The subsequent discovery of rich gold and silver mines at Tonopah, Goldfield, and Bull Frog has served to place Nevada among the great mining states of the country. In the production of gold, Esmeralda, Nye, Lincoln, and Storey Counties have been especially famous; and in the production of silver, Nye, Churchill, Eureka, and Storey Counties have been in the lead. Copper, lead, and zinc are produced in small quantities, being found in fissure veins with gold and silver. Other minerals exist in great variety. Salt deposits in Washoe and Churchill Counties are extensive and of commercial im-The borax marshes in the west and southwest are no longer commercially productive. Large deposits of mica are found in the east. Gypsum occurs in a number of places, and veins of antimony are worked in the Battle Mountain district and in Bullion canyons. Bismuth, graphite, barites, magnetic iron ore, manganese, roofing-slate, einnabar, wolframite, and sulphur are among the other mineral prodnets of the state.

Manufacturing. Though Nevada is not important as a manufacturing community, the manufactures of the state have shown a marked increase in value during the past fifteen years. The most important industries (arranged in the order of value of products) are: the manufacture of cars and general shop construction and repairs by steam railroad companies, flour-mill and grist-mill products, and printing and publishing.

Education. The public schools are supported by the income from a Federal grant of 2,000,000 acres of public land, supplemented by state and local taxation. The administration of the school system is in the hands of a superintendent of public instruction. School attendance is compulsory for children between eight and sixteen years of age. The State University, at Reno, includes a College of Agriculture and Mechanic Arts, an agricultural experiment station, and a normal school. The state also supports a school of mines at Virginia City. The Federal government maintains three board-

ing schools for Indians in the state.

Government. Nevada is governed under the original constitution of 1864, and its amendments. The right of suffrage belongs to male and female citizens of the United States who have lived in the state for six months, in the county for thirty days, and in the precinct for thirty days preceding an election. Excluded from the suffrage are idiots, insane persons, and unpardoned convicts. EXECUTIVE. The executive officers of the state are the governor, lieutenant-governor, secretary of state, attorneygeneral, comptroller, treasurer, superintendent of public instruction, and surveyor-generalall chosen by popular vote for four years. The governor does not possess the usual pardoning power but is ex officio a member of the pardoning board. The governor and lieutenant-governor must be at least twenty-five years of age at the time of election to office. LEGISLATIVE. The legislature consists of a Senate and an Assembly. It meets at Carson City bienially (odd number years), its sessions being limited to 60 days. Members of the Senate are chosen every four years, about half the number retiring every two years. Members of the Assembly are chosen biennially. The constitution requires that the number of senators shall be not less than onethird nor more than one-half the number of members of the Assembly, and that the total membership of both houses shall not exceed seventy-five. Special sessions are limited to twenty days. JUDICIARY. The judicial department consists of a supreme court with a chief justice and two associate justices, chosen for six years, and district courts with judges chosen for four years. Local Government. The state is divided into counties each of which is governed in local matters by a board of county commissioners, and is divided for administrative purposes into townships. Besides the board of county commissioners, the county officers include a prosecuting attorney, a sheriff, a county clerk, a register of deeds, an auditor, an assessor, a treasurer, a surveyor, and a superintendent of schools—all elected by popular vote. Township and county governments are uniform throughout the state. For each township there is a justice of the peace, chosen biennially by its voters.

History. Francisco Garces, a Franciscan

History. Francisco Garces, a Franciscan monk, passed through the southern part of the state on his way to California in 1775. He was undoubtedly the first person of European descent to enter the limits of Nevada. Some fifty years later American trappers, and Canadian trappers of the Hudson Bay Company entered Nevada and plied their trade along the Humboldt River. Many of the overland emigrants

on their way to California crossed Nevada in the early 'forties. In 1843–45, John C. Frémont made a series of explorations in this region. By the Treaty of Guadalupe-Hidalgo, which concluded the war with Mexico, Nevada became United States territory. It was a part of California, known as the Washoe Country, until September, 1850, when most of the present state was included in the newly organized territory of Utah. The first settlement in what is now the state of Nevada was planted in the valley of the Carson River in 1849. In March, 1861, the territory of Utah was divided at 39° west of Washington, and the western portion was called Nevada. Nevada was admitted as a state on October 31, 1864.

NEW HAMPSHIRE

NEW HAMPSHIRE, a North Atlantic State of the American Union, one of the New England group, and one of the original "thirteen." It lies between latitudes 42° 40' and 45° 18' 20" N., and longitudes 70° 37' and 72° 37' W. It is bounded on the N. by the Canadian province of Quebec; on the E. by Maine and the Atlantic Ocean; on the SE. and S. by Massachusetts; on the W. and NW. by Vermont. New Hampshire ranks forty-third in area (9,341 sq. m., of which 310 sq. m. are water surface) among the states of the Union.

Coast. The coast of New Hampshire, about 22 m. in length, is mainly a low sandy beach which affords but one harbor, that of Portsmouth, near the mouth of the Piscataqua River. About nine miles off the shore are the bleak Isles of Shoals, nine in number, a part of which belong to New Hampshire and a part to Maine.

Relief. Except in the extreme southeastern section, the surface is rugged and hilly throughout New Hampshire, with an average elevation of 1,200 ft. above the sea. The various mountain ranges, groups, and isolated peaks are all parts of the great Appalachian system of eastern North America. The White Mountains, in the north-central part of the state, comprise several short ranges and a number of outlying mountain masses. They contain, with the exception of the mountains in North Carolina, the highest summits in the Appalachian system. principal ranges, all of which have a northeastsouthwest direction, are the Presidential, the Franconia, and the Carter-Moriah. the Presidential and the Franconia Ranges is the celebrated Crawford Notch, some 2,000 ft. in depth, through which flow the Ammonoosuc and Saco Rivers. East of the Presidential Range and parallel to it runs the Carter-Moriah Range, from which it is separated by the valleys of the Glen-Ellis and Peabody Rivers. Presidential Range, which is about twenty miles in length, contains Mount Washington (6,293 ft.), Mount Adams (5,815 ft.), Mount Jefferson (5,735 ft.), Mount Sam Adams (5,585 ft.) Mount Clay (5,554 ft.), Boot Spur (5,520 ft.),

Mount Monroe (5,390 ft.), J. Q. Adams Peak (5,384 ft.), Mount Madison (5,380 ft.), and Mount Franklin (5,028 ft.). The highest summits of the shorter Franconia Range are Mount Lafayette (5,269 ft.) and Mount Lincoln (5,100 ft.). The highest peak on the Carter-Moriah Range is Carter Dome (4,860 ft.). Franconia Notch, separating the Franconia and Pemigewasset Ranges, a region of great charm, is overlooked from the upper cliffs of Profile Mountain by The Great Stone Face, immortalized by Nathaniel Hawthorne. The whole White Mountain region is one of wild, romantic, and grand scenery—deep narrow valleys, picturesque glens, gorges, flumes, waterfalls, brooks, rivers, and lakes. The surface of New Hampshire north of the White Mountains presents numerous ridges, occasionally rising to a height of 2,000 ft. and more, with wide intervening valleys. South of the White Mountains, the surface of New Hampshire—a part of the New England Uplands-plateau-like in its main characteristics and occasionally broken by hills-slopes gradually to the southeast. Between the Merrimac Valley ard the sea is the only lowland region in New Hampshire, where much of the surface is less than 600 ft. above the sea; but even here are isolated hills and a number of ridges 1,000 ft. or more in height.

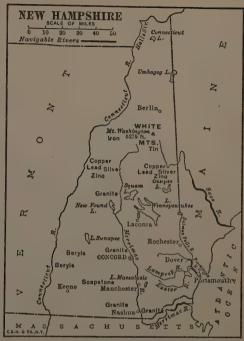
Drainage. A water parting extends from Mount Monadnock (3.186 ft.) in the southwest to the northeastern corner of the state. West of this parting the drainage is through the Connecticut River and its tributaries southward into Long Island Sound, while to the east of the parting, the waters are carried eastward and southeastward directly into the Atlantic Ocean. The most important rivers of the eastern drainage area are the Merrimac and the Piscatagua. The Merrimac has its head waters in the White Mountains and flows almost due south to the point where it enters the state of Massachusetts. It is said to turn more spindles and propel more shuttles than any other river in the world. From Dover Point to its mouth, the Piscatagua is about half a mile wide, and fed by the Salmon Falls, Lamprey, and Exeter Rivers, the volume and swiftness of its current at ebb-tide prevent, the freezing of the water in Portsmouth Harbor during the coldest winters. Several hundred lakes and ponds are scattered over the surface of the state. The scenery of several of the lakes is remarkably beautiful and varied, and scarcely less attractive to tourists than that of the moun-The largest and most widely known is Lake Winnepesaukee south of the White Mountain region. This beautiful sheet of water, about twenty miles long, lies 412 ft. above the sea; it is very irregular in outline, is surrounded by picturesque hills, and dotted by numerous islands. Among the other inland sheets of water, which add so much to New Hampshire's fame as a summer resort, are Squam, New Found, Sunapee, and Ossipee, all in the Winnepesaukee region; Massabesic, farther south; and, north of the White Mountains, Diamond Ponds, Umbagog, and Connecticut Lakes.

Climate. The winters are long and severe and the summers cool. In the White Mountain region and farther north the mean annual temperature is 42° F., but great extremes of temperature occur in the deep mountain valleys, where the thermometer frequently records over 90° in summer and -10° to -25° in winter. Along the shore the variations are less pronounced. The mean annual precipitation for the entire state is about 40 in., distributed quite evenly throughout the year. Among the mountains and in the northern part of the state the annual fall of snow is from 7 to 8 ft., but in the southeastern part is about one-half that amount. The prevailing winds are northwest and south-

east.

Agriculture. The soils of the valleys, coastal plain, and rounded hills are relatively fertile, but the highlands become more and more rugged and sterile as the White Mountain region is approached. The presence of boulders and the general topography prevent the use of farm machinery on a large scale, and encourage pasturage and permanent meadows rather than growing grain. Agriculture has been greatly modified in recent years, and the production of vegetables, fruits, dairy products, poultry and eggs has been largely substituted for the growing of cereals. Farmers have learned that the entertainment of summer boarders is a profitable farm industry, and the revenues derived from it are bringing comforts and even luxuries into homes where old-fashioned farming meant poverty. Agricultural crops (in the order of value) are: hay and forage, forest product of farms, potatoes and other vegetables, cereals, fruits and nuts.

Forests. The principal merchantable timber of the state is red spruce, found chiefly in the virgin forests of the north. The white pine, which was once abundant in all parts of the state, has been cut; but some of the second growth in the south is already merchantable. The most common hardwood trees are sugar



maple, yellow birch, white birch, and beech; these are widely distributed throughout the state, but are for the most part too young to cut. Most of the virgin forests of the northern section were cut in the latter half of the 19th Century, while abandoned farms in the southern section were becoming reforested. Large quantities of wood, chiefly spruce, have been used in the manufacture of paper and wood pulp.

Fisheries. Although the trout and salmon of the fresh waters in the interior are a great attraction to sportsmen, the commercial fisheries, which are confined to the coast region, are of small and declining importance.

Minerals. The most important of the mineral products of New Hampshire is granite, which forms more than one-half of the total value of all mineral products of the state. The only other large items are clay and clay products, mineral waters, and a quartz schist suitable for making whetstones and oilstones.

Manufactures. Natural conditions have made New Hampshire a manufacturing rather than an agricultural state. The lakes and ponds of the elevated central and northern portions serve as reservoirs to feed the rivers flowing to the southward and furnish abundant and constant water-power to the towns of the southern section. Close proximity to the markets and trade centers of New England, and excellent transportation facilities have also contributed to the growth of manufacturing interests. The principal manufactured products (in the order

of their value) are: boots and shoes; cotton goods; woolen, worsted, felt goods, and wool hats; lumber and timber products; paper and wood pulp.

Education. New Hampshire has a complete system of free public schools, including high and normal schools. Each town is constituted a school district, and each district is required to keep its schools open for at least twenty weeks each year. All children between the ages of eight and fourteen, and those between the ages of fourteen and sixteen who cannot read and write English, are required to attend either a public or an approved private school for the full term. The College of Agriculture and Mechanic Arts at Durham is a state institution, and Dartmouth College, at Hanover, receives some state aid. Saint Anselm's College at Manchester, is

a Roman Catholic institution. Government. The nucleus of the present constitution was framed in 1784. It was much amended in 1792 and 1852, and radically changed and amended in 1877. Every male resident of a town who is twenty-one years of age or over, a citizen of the United States, and not a pauper or excused from paying taxes at his own request, and who is able to read English and to write (unless physically unable to do so) is entitled to the suffrage. Women have the right to vote in the election of school officers. EXECUTIVE. The chief executive or governor is elected for a term of two years, and is assisted by what is known as the governor's council, an advisory body of five members, elected at the same time and for the same term as the governor. No person is eligible for either office who shall not at the time of his election be at least thirty years of age and have been an inhabitant of the state for the seven years next preceding his election; a councilor must be a resident of the district from which he is chosen. The governor and council appoint all judicial officers, the attorney-general, auditor, administrative boards, coroners, and certain naval and military officers; they have power to pardon offenses; and they exercise some control over expenditure. The governor may veto any bill or resolution presented to him, and a two-thirds vote of the members of both houses is required to pass over his veto. There is no lieutenant-governor. LEGISLATIVE. The legislative branch of the government, known as the general court, is composed of a Senate and a House of Representatives. It meets at Concord on the first Wednesday in January of every odd number year, and at such other times as the governor may appoint for a special session. The length of session is not prescribed by law. Senatorial

taxes paid in each; representation in this body is, therefore, apportioned on the basis of property. In the house of representatives, representation is apportioned on the basis of population, but is so arranged as to favor the rural districts; in this way every town or ward of a city having 600 inhabitants is allowed one representative, but, although for every additional representative 1,200 additional inhabitants are required, any town having less than 600 in-habitants is allowed a representative for such proportionate part of the time the legislature is in session as the number of its inhabitants bears to 600. Senators and representatives are elected for a term of two years. A representative must have been an inhabitant of the state for at least two years next preceding his election, and must be a resident of the town, parish, or ward from which he is chosen. A senator must be at least thirty years of age, must have been an inhabitant of the state for at least seven years next preceding his election, and must be a resident of the district he is chosen to represent. Ju-DICIARY. For the administration of justice the state has a supreme court and a superior court; each county has a probate court. Besides the foregoing are justice of the peace courts, and some towns as well as the cities have a police court. Judges and justices are appointed by the governor and council, and with the exception of justices of the peace, they hold office during good behavior, or until they have attained the age of seventy; justices of the peace are appointed for a term of five years and may be reappointed. LOCAL GOVERNMENT. Local government is administered by counties, towns (townships), village districts, and cities. History. Among the early explorers who visited New Hampshire were Martin Pring (1603); Samuel de Champlain (1605); and Captain John Smith (1614). The first settlement

districts are formed so as to be approximately

equal with respect to the amount of direct

(townships), village districts, and cities.

History. Among the early explorers who visited New Hampshire were Martin Pring (1603); Samuel de Champlain (1605); and Captain John Smith (1614). The first settlement of which there is positive evidence was made in 1623 by David Thomson at Little Harbor, now in the town of Rye. In 1641–79, 1689–92, and 1699–1741 New Hampshire was joined to the Massachusetts colony; but during the intervening dates and until 1775 it was under royal governors of its own. A provisional government was formed in 1776, a state constitution adopted in 1784, and New Hampshire was the ninth state to ratify the national constitution (1788). Among the distinguished sons of New Hampshire may be mentioned President Franklin Pierce, Daniel Webster, Lewis Cass, Salmon P.

NEW JERSEY

NEW JERSEY, one of the Middle Atlantic States of the Union, lies between latitudes 38° 46′ and 41° 21′ N., and longitudes 73° 53′ and 75° 35′ W. It is bounded on the N. by the state of New York; on the E. by New

York and the Atlantic Ocean; on the S. by the Atlantic Ocean and Delaware Bay; and on the W. by Delaware and Pennsylvania. It is separated from New York, in part, by the Hudson River, New York Bay, Staten Island Sound,

Chase, and Horace Greeley.

and Raritan Bay; and the Delaware River and estuary form the entire western boundary. New Jersey has an extreme length, north and south, of about 167 m.; a breadth, east and west, of about 57 m.; and an area of 8,224 sq. m., of which 710 sq. m. represent water surface. It ranks forty-fifth in size among the states of the Union.

Relief. The surface of New Jersey rises from sea level along the greater part of its eastern and southern coasts to a high region in the north, where at one point it reaches an altitude of 1,800 ft. There are four distinct topographic belts,—Coastal Plain, Triassic Lowland, Highlands, and Appalachian. The Coastal Plain lies to the southeast of a line drawn between Trenton and New Brunswick. In this section the surface rises gently from sea level along its eastern margin to a ridge about 200 ft. in altitude, extending from the vicinity of Sandy Hook southwestward through the center of the region, and nearly parallel with the lower course of the Delaware River. Besides this central ridge the only elevations in the Coastal Plain are a few low, isolated hills, such as the Navesink Highlands (260 ft.) in Monmouth County. A small part of the area is tidal marsh, lying chiefly between the barrier beaches of the Atlantic coast and the mainland. Delaware Bay and the southern reaches of the Delaware River are bordered by marine terraces rising from 10 to 80 ft. above tide level. Immediately to the northward from the Coastal Plain Region is the Triassic Lowland section; a line drawn southwest across the state through Pompton, Morristown and Highbridge to the Delaware, will denote approximately, its northwestern bound-ary. The surface is chiefly a rolling plain inter-rupted by high ridges of trap rock, examples of which are the Palisades of the Hudson, and the First and Second Watchung, or Orange Moun-With the exception of the ridges, the Triassic Lowland section lies at an altitude of 50 to 250 ft. above sea level. Northwest of the Triassic Lowland belt is the section known as the Highlands, a region embracing an area of about 900 sq. miles. This is an upland plateau which corresponds to the Piedmont belt of the states farther south. The average elevation of the Highlands is about 1,000 ft. above sea level. The Appalachian section occupies the north-western corner of the state and includes a number of parallel ridges between the northeastern extensions of the South (Blue Ridge), and the Kittatinny Mountains of Pennsylvania. Kittatinny Ridge in New Jersey attains its greatest elevation (High Knob, 1,799 ft.) in Sussex County, close to the northern boundary. A break in the ridge at Water Gap forms the opening through which flows the Delaware, in a region famed for its picturesque scenery.

Drainage. New Jersey is drained to the Atlantic Ocean and to the Delaware River. Of the streams lying wholly within the state, the Passaic is the most important. At Little Falls

it descends 40 ft., by a cascade and a mile of rapids, and at Paterson it has a sheer fall of 70 feet. With its tributaries the Passaic drains an area of over 900 sq. miles. The Hackensack River, draining an area of about 200 sq. m. in the northeastern part of the state, empties into Newark Bay. It is about 35 m. long. The Raritan River, the largest river of New Jersey, flows eastward through the center of the state and drains an area of 1,100 sq. miles. Most of the other streams of the Atlantic slope are short and unimportant, but a number in the southern part of the state are navigable tidal streams. The Morris Canal and the Delaware and Raritan Canal add to the inland navigation of the state. Among the streams flowing to Delaware Bay, the more important are the Maurice River and Great Egg Harbor River. The Delaware flows along the western and southwestern borders of the state for a distance of about 250 m. and drains an area of 2,400 sq. miles. Its New Jersey tributaries are short and commercially unimportant. Numerous small lakes in the northern part of the state are picturesque features of the Highlands region and form popular places of resort during the summer season. Of these the largest and best known are Lake Hopatcong, lying in Morris and Sussex Counties, and Greenwood Lake on the northern boundary line.

Coast. The coast from Sandy Hook to Cape May is generally protected by long sandy spits



or island beaches, behind which lie shallow bays and sounds. The entire coast is a summer resort land, Long Branch, Ocean Grove, Asbury Park and Atlantic City being among the best

known localities.

Climate. There is considerable variation in the climate of New Jersey, owing to the elevation of the northern section, and the proximity of the ocean to the southern section. The average summer temperature is about 67° F. in the north and 75° in the south. The mean annual temperature ranges from about 49° in the N. to 55.5° at Cape May. At Atlantic City the mean annual temperature is 52°; that for the winter is 34°, with an extreme of -7°; and for the summer 70°, with an extreme of 99° F. In summer the prevailing southwesterly winds are interrupted about midday by a delightful seabreeze, which lasts for several hours and adds greatly to the comfort of the numerous summer visitors of the coast resorts. The annual rainfall is between 41 and 50 inches. In the winter season part of the precipitation is in the form of snow, but, except in the extreme north, it lasts only a short time.

Agriculture. The principal agricultural crops of New Jersey are: hay and forage, potatoes, Indian corn, wheat, rye, and oats. The state no longer ranks high in the production of cereals; but in market-gardening, in dairying, and in horticulture and floriculture it is making great progress. In the acreage and value of its cranberry crop it holds first place. In the production of vegetables of marketable value it is surpassed by only four other states. In the acreage devoted to the cultivation of small fruits it stands first; but in production and in

the value of crop it is second.

Fisheries. The fisheries of the state are of great commercial value, the chief catch being oysters, clams, shad, squeteague (weakfish),

bluefish, menhaden, sea bass, and cod.

Minerals. Among the mineral deposits of the state are: roofing-slates, building and flag stones, zinc ores, franklinite, gneiss and magnetic iron ore, copper ore, glass-sand, and clays. In New Jersey the mining of clays is more important than in any other state. The mining of natural fertilizers (white and greensand marls) is a long established industry. There are a number of valuable mineral springs in the state.

Manufactures. The industrial prominence of New Jersey is due largely to its favorable geographic position and to its excellent transportation facilities. Most of the materials used in the manufacturing industries of the state are produced beyond its borders, and most of the manufactured products are shipped to outside markets. The proximity of the state to the anthracite coal fields of Pennsylvania, which supply a large portion of the fuel used in its manufacturing industries, and to the markets of New York City and Philadelphia, has been a powerful factor in its industrial development.

The leading manufactures of the state (given in order of the value of products) are: copper smelting and refining, silk and silk goods, foundry and machine shop products, slaughtering and meat-packing, woolen and felt goods and wool hats, wire, leathers, electrical machinery and supplies, tobacco manufactures, chemicals, and malt liquors.

Education. The public schools of New Jersey are administered by a state board of education and a commissioner of education. The board of education is non-partisan and consists of eight members who serve for eight years. The commissioner of education serves for five years and is assisted by four deputy commissioners, appointed by himself. The commissioner also appoints county superintendents, who serve for three years. The counties are divided into districts and each district is required to furnish free text-books. All children between the ages of seven and fifteen are required to attend school for the entire school year, and those who at fifteen years of age have not completed the grammar school course must continue to attend until they either complete it or attain to seventeen years of age. Children past fifteen years of age who have completed the grammar school course but are not regularly employed at some lawful occupation must attend a high school or manual training school until seventeen years of age. In addition to the regular public schools the state maintains normal schools at Trenton and Montclair, the Farnum Preparatory School, at Beverly; a Manual Training and Industrial School for Colored Youth, at Bordentown; and an agricultural college and experiment station in connection with Rutgers College, at New Brunswick. The state also makes appropriations for industrial schools in Newark, Hoboken, and Trenton. Among the institutions which do not receive state aid are: Princeton University, at Princeton; Rutgers College, at New Brunswick; the Stevens Institute of Technology, at Hoboken; the Theological Seminary (Presbyterian), at Princeton; the Drew Theological Seminary (Methodist Epis-copal), at Madison; Seton Hall College (Roman Catholic), at South Orange; and many others. There are many private academies, seminaries, and secondary schools, sectarian and non-sec-

Government. The state is governed under the constitution of 1844, with subsequent amendments. The right of suffrage is conferred upon all male citizens of the United States twentyone years of age and over, who have resided in the state for one year and in the county for five months preceding the election. Paupers, idiots. insane persons, and persons convicted of crimes which exclude them from being witnesses, and who have not been pardoned and restored to civil rights, are excluded from the right of suffrage. Legislative. The legislature consists of a Senate and a General Assembly. It meets annually at Trenton, the length of session being

unrestricted by law. Senators (one to each county) are elected for a term of three years, and about one-third of the membership is chosen each year. A senator must at the time of his election be at least thirty years old, and must have been a citizen and inhabitant of the state for four years and of his county for one year next preceding his election. The members of the General Assembly are elected annually, are limited in number to sixty, and are apportioned among the counties according to population, with the proviso that each county shall have at least one member. An Assemblyman must at the time of his election be at least twenty-one years of age, and must have been a citizen and inhabitant of the state for two years, and of his county for one year immediately preceding elec-Money bills originate in the General Assembly, but the Senate may propose amendments. EXECUTIVE. The executive power is vested in a governor, who is elected for three years and may not serve for two successive terms, but who may be reëlected after being for a full term out of office. He must be at least thirty years of age, must have been a citizen of the United States for at least twenty years, and a resident of the state seven years next preceding his election. He is not eligible, during the term for which he is elected as governor, for election to any office under the state or the United States governments. If his office be vacant through death, removal, or any other cause, he is succeeded by the president of the Senate, who serves until another governor is elected and qualified. He has large appointive power. With the advice and consent of the Senate he selects the secretary of state, attorney-general, commissioner of education, chancellor, chief justice, judges of the supreme, circuit, inferior, and district courts, and "lay" judges of the court of error and appeals, as well as the minor administrative officers. The state treasurer, comptroller, and the commissioner of deeds are appointed by the two houses of the legislature in joint session. The governor may make no appointments in the last week of his term. He is ex officio a member of the court of pardons, and his approval is necessary in all cases of pardon or commutation of sentence. JUDICIARY. At the head of the

state judicial system is the court of error and appeals, composed of the chancellor, the justices of the supreme court, and six additional "lay" judges. The supreme court consists of a chief justice and eight associate justices. The other courts of the state are: the court of common pleas, the court of quarter-sessions, the court of oyer and terminer, the orphans' court, the preof pardons, and courts of chancery, the court of pardons, and courts of justices of the peace. Local Government. For the purposes of local government the state is divided into counties, cities, townships, towns, and boroughs. The government of the towns is administered through a council, clerk, collector, assessor, treasurer, etc., chosen by popular vote; that of the townships is vested in the annual town meeting, at which the administrative officers are elected.

History. Voyages made with a view to exploration and settlement of the region now called New Jersey may be said to have begun with the voyage of Henry Hudson in 1609. The English claim to the territory was founded on the voyage of Cabot in 1497. The Dutch settled at Bergen in 1617, the region being claimed as a part of New Netherland. Soon after, some Swedes, regarding the country as a part of New Sweden, settled on the lower Delaware, but they were expelled by the Dutch under Peter Stuyvesant in 1655. In 1664 New Netherland passed to the English, and the Duke of York gave the portion included in the present New Jersey to Lord Berkeley and Sir George Carteret. The latter had been administrator of the Island of Jersey, and the American province was thus named New Jersey. In 1676 the province was divided into West New Jersey and East New Jersey, the former being under a Quaker proprietorship and the latter under Carteret. West New Jersey soon passed to William Penn, who in 1682 purchased East New Jersey also. In 1702 the government of both colonies passed to the crown and the two were united. Until 1736 New Jersey was under the governor of New York, but it had a separate assembly. New Jersey was one of the thirteen original states, and was the scene of some of the most stirring events in the struggle for independence.

NEW MEXICO

NEW MEXICO, a Mountain State of the United States, lies between latitudes 31° 20' and 37° N., and longitudes 103° and 109° 4' W. It is bounded on the N. by Colorado; on the E. by Oklahoma and Texas; on the S. by Texas and Mexico; and on the W. by Arizona. New Mexico has an extreme length from north to south of 400 m. and an extreme width from east to west of 358 miles. In gross area it ranks fourth among the states of the Union (122,634 sq. m., of which 131 sq. m. represent water surface).

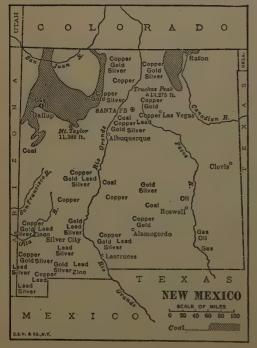
Relief. New Mexico lies in the Great Plains,

Rocky Mountain, and Plateau Provinces of the

United States. The mountains of New Mexico are all a part of the Rocky Mountain system. The Front Range crosses the northern boundary of the state east of the Rio Grande River and extends south to about 35° 30' N. latitude. This section forms the water parting between the upper waters of the Canadian and the Rio Grande Rivers, and contains many of the loftiest peaks in the state, among them being Truchas (13,275 ft.) and Costilla (12,634 ft.). West of the Rio Grande is a series of lower ranges whose western slopes merge very gradually with the Plateau Region. The San Juan, Gallinas, and

Nacimiento Ranges are among the most notable in this group. South of the Rocky Mountains lies the so-called Basin Region crossed by numerous disconnected mountain ranges. These ranges, trend north and south, are from 30-100 m. in length, and the higher ranges, reaching altitudes of 8,000 or 10,000 ft., are separated by broad intermontane desert plains or valleys which, sloping towards their centers, seldom have a distinct drainage outlet. East of the Pecos and south of the Canadian Rivers lies the great arid tableland known as the Staked Plains, a vast stretch of barren, monotonous wastes. The Plateau Region includes most of the area north of the Gila River and west of the Rio On the north and west the plateau continues into Colorado, Utah, and Arizona. Near its southern and eastern borders are many lava flows and extinct volcanic mountains, one of the most imposing being Mt. Taylor (11,389 ft.). A conspicuous feature of New Mexican landscape is the "mesa," a flat-topped hill rising above the surrounding country like a table.

Drainage. New Mexico has no navigable rivers. The most important stream is the Rio Grande which, rising in southern Colorado, enters New Mexico through deep canyons near the center of the northern boundary and flows southward across the entire state. It changes from a mountain stream in the north to a sluggish river in the south, and in its lower course in New Mexico its bed is frequently dry. In the flood season it inundates the lowlands, spreading



over the surface a rich deposit of silt, because of which characteristic it is frequently called the "Nile" of New Mexico. The Pecos, similar in its characteristics to the Rio Grande, rises in Mora County and flows southward into Texas. The Canadian River, rising on the eastern slope of the Rocky Mountains, flows in a general southeasterly direction across northern Texas into Oklahoma. About midway between the western boundary and the Rio Grande passes the "Continental Divide," which separates the waters entering the Gulf of Mexico from those that flow into the Gulf of California. Most of the westward flowing streams are of slight importance, though their flow is perennial. They include the Gila, San Francisco, San Juan, and several others. Many of the smaller streams in the valleys disappear through seepage or evaporation.

The climate of New Mexico is Climate. characterized by a lack of humidity and great daily variation in temperature. The low humidity, high altitudes, and southern latitude combine to make the climate salubrious and beneficial to persons who have pulmonary disorders. At Sante Fé the mean annual temperature is 49°; the mean for the winter is 31°, and for the summer 67°, and the highest and lowest temperatures ever recorded were 97° and -13° F., respectively. In all parts of New Mexico except the northwest there is a so-called "wet season," which begins early in July and lasts for a month or six weeks, the rain coming in the form of short afternoon thunderstorms. The rainfall varies with the altitude. On the high plateaus it is sufficient for the growing of grain crops with irrigation, but in the stream valleys irrigation is necessary. The normal annual precipitation ranges from about 6 in. in the Rio Grande and San Juan valleys to 20 in. on the plateaus, and to 25 in. in the mountains. Little snow falls in the valleys, but on the mountain peaks and in the canyons it collects to great depths and forms a steady source of the water supply for the rivers.

Agriculture. In the river valleys the soil is fertile and produces excellent crops. soils of the Pecos and Rio Grande valleys are of alluvial origin and range in character from gravelly and sandy soils to heavy loams. The soils of the desert valleys are composed chiefly of the gravelly and sandy detritus from the adjacent mountains and plateaus. In the desert valleys are areas of loam and clay soils. Only about one-seventh of the total area of the state is included in farms. Because of the small amount of rainfall agriculture is confined chiefly to the river valleys, and one of the characteristics of New Mexico is the great area of arid land utilized for grazing purposes only. The crops of the cultivated lands (in the order of importance as judged by value) are: hay and forage, corn, wheat, oats, Kafir corn and milo maize, and potatoes. A little cotton has been grown near Carlsbad in the Pecos valley, sugar-beets

are grown south of the Albuquerque, and cantaloups in the southern Rio Grande valley. Fruit, especially the Bartlett pear, is very successfully grown. Stock-raising is a most important industry and the growing of sheep for wool takes a leading place. Irrigation has been practised in New Mexico since prehistoric times, and there are now a number of extensive irrigation works under the federal government. Irrigation by private companies is of some importance. Dry farming has proved a great success in New Mexico, and thousands of acres are being culti-

vated by that process. The national forest area covers Forests. more than 10,173,890 acres, and there are about 4,000,000 acres of heavily forested country in private ownership. Only the higher ranges and plateaus are timbered, the low slopes are usually covered with a scrub oak, juniper, and piñon, but some mountains, especially those along the eastern border of the Rio Grande valley, are absolutely treeless. The principal forest areas are upon the southern end of the San Juan Range. upon the Sangre de Cristo Range, and in Socorro County west of the Rio Grande. The chief varieties of timber are the red fir, Engelmann's spruce, and yellow pine. In the valleys the only trees native to the soil are the willow and the cottonwood, found along the water courses.

Minerals. The state has valuable mineral resources including coal, gold, silver, copper, lead, and zinc. By far the most important of the mineral products is coal, which is found in all forms, lignite, bituminous, and anthracite. Iron ores are frequently found, but have not been extensively worked. Gypsum beds are widely distributed. The quarries yield granite, sandstone, limestone and marble, and turquoise is found in several localities within the state. Mineral waters and salt are also found to some extent, and mica and platinum are produced in small quantities.

Manufactures. New Mexico is preëminently a mining and stock-raising region, and manufacturing is still in its infancy. The important industries (arranged in the order of value of products) are: cars and general shop construction and repairs by steam railroad companies, the manufacture of lumber and timber products, printing and publishing, and flour- and grist-milling.

Education. The constitution provides for a state board of education and requires school attendance of every child of school age "of sufficient physical and mental ability." A superintendent of public instruction exercises a general supervision over all of the state schools. There is also a superintendent of schools for each county, and the counties are divided into school districts, each having three directors. In incorporated cities and towns the schools are under the supervision of local boards of education. The state supports the University of New Mexico, at Albuquerque; a college of

agriculture and mechanic arts, at Mesilla Park; a normal school, at Silver City; a normal university, at Las Vegas; a school of mines, at Socorro; and a military institute at Roswell. Indian day schools are maintained by the federal government at Albuquerque, Jicarilla, Santa Fé, and Zuni. By statute the public school curriculum must include the study of the nature of alcoholic drinks and their effect upon the human system, and a course of industrial education is prescribed.

Government. New Mexico is governed under a constitution adopted January 21st, 1911, and its amendments. Suffrage is granted to every male citizen of the United States over twentyone years of age, resident in New Mexico twelve months, in the county ninety days, and in the election precinct thirty days preceding an election. Excluded from the suffrage are idiots, insane persons, persons convicted of a felony, or of infamous crime (unless restored to political rights), and Indians not taxed. By statute railway employees, if necessarily absent from the precinct in which they registered and qualified, may vote elsewhere. In school elections, which must be held at different times from other elections, women possessing the legal qualifications of age and residence may vote, unless a majority of the qualified voters of a district, thirty days before the election, petition the board of county commissioners against woman suffrage. There must be a similar petition for women's voting before they are restored to suffrage. Women may hold office on boards of education, or be school directors, or county school superintend-EXECUTIVE. The executive officers of the state are elected for two years, and must be citizens of the United States, at least thirty years of age, and residents of New Mexico for five years before election. They are a governor, lieutenant-governor, secretary of state, state auditor, state treasurer, attorney-general, su-perintendent of public instruction, and commissioner of public lands. The governor appoints a legal adviser and a fish and game The governor may veto within commissioner. three days (Sundays excepted) any measure, or in an appropriation bill any item, but bills may be passed over his veto by a two-thirds vote of the members present and voting in each house. Legislative. The legislature consists of a Senate and House of Representatives. Senators are elected for terms of four years, and members of the house for two years. The legislature meets at Santa Fé, biennially (even number years), the session being limited to 60 days. Judiciary. The state judiciary comprises a supreme court with three judges, elected for terms of eight years; eight district courts each having one judge, elected for six years; and probate courts in each county. GOVERNMENT. For local government the state is divided into counties, the officers of which are a county board, a probate judge, district-attorney, sheriff, clerk of court, register of probate,

county assessor, county treasurer, county surveyor, and a superintendent of schools—all

elected for terms of two years.

History. New Mexico was explored by Spaniards from Mexico at various times between 1536 and 1581. Between 1583 and 1595 several attempts at the conquest and occupation of New Mexico were made, but for various reasons they were unsuccessful. Santa Fé, which occupies a site nearly 7,000 ft. in elevation, is after St. Augustine, Florida, the oldest town in the United States, dating from near the beginning of the 17th Century. An Indian revolt in 1680 resulted in the massacre of over 400 Spanish settlers and the capture of Santa Fé, but in 1692 the Spaniards regained their hold on the territory, and European occupation was assured. The history of New Mexico during

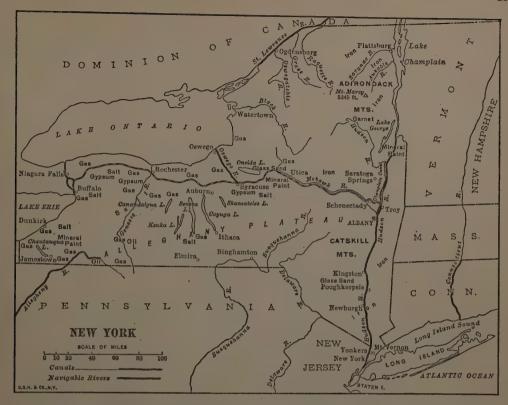
the 18th Century was uneventful. After the achievement of Mexican independence in 1821, New Mexico became successively a province, a territory, and a department of that country. It was ceded to the United States by the Treaty of Guadalupe-Hidalgo in 1848. Previous to that time American traders had been active in the territory, and after that date the settlement of the region by Americans progressed steadily. The territorial form of government was provided by Congress in 1850, and was inaugurated on the 3rd of March, 1851. Its area was increased by the Gadsden Purchase from Mexico and by the Texan cession of the country lying east of the Rio Grande. New Mexico assumed its present boundaries and area in 1863. It was admitted to the Union as a separate state in June, 1910.

NEW YORK

NEW YORK, or the "Empire State," one of the original thirteen states of the Union, belongs in the Middle Atlantic group. It lies between latitudes 40° 30′ and 45° 0′ 2″ N., and longitudes 71° 51′ and 79° 45′ 55″ W. Roughly triangular in shape, it has a very irregular outline, and is bounded on the W., NW., and N. by Canada, from which it is separated for two-thirds of the distance by Lake Erie, Niagara River, Lake Ontario, and the St. Lawrence River; on the E. by Vermont, Massachusetts, and Connecticut; and on the S. by the Atlantic Ocean, New Jersey, and Pennsylvania. The state limits include Long and Staten Islands, and the jurisdiction of the state covers Long Island Sound and the lower waters of the Hudson to low-water mark on the New Jersey shore. The state has a breadth from E. to W. of about 326½ m., and an extreme length from N. to S. (on the line of the Hudson) of about 300 m. New York ranks twenty-ninth among the states of the Union, its area being represented by 47,654 sq. m. of land surface and 1,550 sq. m. of inland water surface.

Relief. The greater part of the eastern and northern sections of the state are mountainous. The central and western parts are of plateau character, a continuation northward of the Alleghany Plateau of the Appalachian System. Long Island is a narrow portion of the Coastal Plain section, which is more broadly developed in the states south of New York. Of the entire area of the state, about one-twentieth-most of which is on Long Island—is less than 100 ft. above the sea in elevation. The rest of the surface is between 100 and 1,500 ft. in elevation. and in the mountain regions the average is much higher. The mountainous area of northeastern New York comprises the Adirondacks, a mountain mass resembling in formation the Laurentian Mountains of Canada rather than the ranges of the Appalachian System. The highest peak of the group and the culminating point of the state is Mount Marcy (5,345 ft.). There are a number

of other peaks with elevations of 4,000 to over The Adirondack region is a true wilderness with countless tarns, lakes and ponds, and their connecting waterways. There are areas of semi-primeval forest where game is still plentiful, and all nature in this enchanting region is untamed and glorious. It is a land for the hunter and sportsman, for the healthseeker and nature lover. Farther south on both sides of the Hudson River are the Highlands of the Hudson, a section of the Blue Ridge Range of the Appalachian System. Many lofty and precipitous bluffs rise close to the shores of the river and form its most impressive scenery. Among the summits are Breakneck (1,635 ft.), Crow Nest (1,405 ft.), Storm King, and Anthony's Nose (1,048 ft.). The Catskill Mountains and outlying ridges, including the Shawangunks on the south and the Helderberg Mountains on the west, are a part of the Appalachian System and the culmination of the plateau region. The Catskills fall abruptly to the Hudson valley on the east, as the Helderberg Mountains, their westerly continuation, fall to the valley of the Mohawk, thus constituting the escarpment of the plateau. The Catskills reach their greatest elevation in Slide Mountain (4,200 ft.). The country of the Catskill region is not so wild as is that of the Adirondack section, but it is picturesque, and furnishes many delightful summer resorts. The plateau region extends westward and northward from the Catskills to the lowlands bordering Lakes Erie and Ontario. Presenting a great variety of surface, the plateau decreases in height towards the north by a series of terraces, and reaches its lowest elevation on the plain which skirts Lake Ontario. In places the surface becomes so rugged as to be called mountainous, and elevations of 1,500 and 2,000 ft. occur at intervals all the way from the Catskills to Chautauqua County. The plateau is deeply cut by valleys, many of which are wide and afford fertile areas of farm lands. In westcentral New York the plateau region is one of



great beauty and fertility, characterized by a remarkable series of long, deep, and narrow lakes.

Drainage. The drainage of New York is complex and its waters reach the sea by various courses. The Hudson and a few streams in the extreme southeast have independent courses to the ocean within the state itself; a part of the Catskill region drains into Delaware Bay through the Delaware River; the Susquehanna drains a large area in the south-central part of the state into Chesapeake Bay; a small part of the state in the southwest drains into the Ohio and thence by the Mississippi into the Gulf of Mexico; and, finally, a large part of the plateau and the Adirondack regions are drained through the St. Lawrence System. The principal rivers of the state are: the Hudson and St. Lawrence, both important commercial channels: Mohawk, the main tributary of the Hudson; the Oswego, which discharges the waters of the central chain of lakes into Lake Ontario; the Genesee, Alleghany, and Susquehanna with its main tributaries; the Delaware and its branches; the Black, Oswegatchie, Grass, Raquette, Chazy, Saranac, and Ausable. The rivers of New York are noted for their many falls and rapids. Of these the largest is the cataract of Niagara on

the Canadian border. The American Fall is entirely within the state; but the international boundary-line passes down the center of the Horseshoe or Canadian Fall. Other notable falls are those of the Genesee at Portage and Rochester, Trenton Falls, the Falls of Ticonderoga, and many falls in the Adirondack region. Along the shores of the upper portion of the Finger Lakes are countless waterfalls and pic-turesque glens. New York shares the great boundary lakes of Erie and Ontario with the Dominion of Canada; and beautiful Lake Champlain, with its northern end in Canada, lies partly in Vermont. Besides the boundary lakes there are thousands of small lakes and ponds lying wholly within the state, Lake George being the largest and most picturesque. The elongated lakes of the west-central part of the state, mentioned above, extend in a north-south direction and are known as the Finger Lakes. The largest of these are Cayuga, Seneca, Keuka, Canandaigua, Owasco, and Skaneateles. In the extreme southwestern part of the state is Chautauqua Lake, famed for its beautiful setting, and widely known as an educational center and summer resort. The state owns and operates canals and navigable feeders with an aggregate length of many hundreds of miles. Of these

the Erie, from Buffalo to Albany, and the Champlain, from West Troy to Whitehall, are the most important. New York has 75 m. of coast line on Lake Erie and over 200 m. on Lake Ontario, and numerous excellent lake ports, of which Buffalo is the largest. Lake navigation is therefore of great importance in the commercial and industrial life of the state. The greater part of the seacoast is on Long Island-a low, sandy coast—with numerous towns and summer resorts. The mainland, opposite the western end of Long Island, is traversed by the lower Hudson and other channels, which merge into a bay covering 14 sq. m. and containing several islands, the largest of which are Staten and Manhattan Islands. This bay, known as the Upper Bay, forms an excellent protected harbor, with an immense water front, at the outlet of the chief natural highway from the interior of the country to the ocean. It is one of the amplest, safest, and most picturesque harbors in the world. The Narrows, through which all large ships pass on their way to the ocean, is a strait about a mile in width between Long Island and Staten Island. It opens into the Lower Bay, which covers about 88 sq. m. The bar at Sandy Hook, 18m. south of Manhattan Island, separates the

Atlantic Ocean from the Lower Bay.

Climate. The climate of New York is one of extremes, hot in summer and cold in winter, and yet healthful and invigorating. The average mean annual temperature is about 47° F., though it varies from over 50° near New York City, and 48° near Lake Erie, to Jess than 40° in the high Adirondacks. The maximum summer heat is about 93°, but temperatures of 100° have been recorded at rare intervals. In the winter the temperature falls below zero durative that the statement of the statem ing exceptionally cold spells. A temperature of -20° is, however, never recorded in the southern portion, seldom in the central, but is often exceeded by 5 or 10 degrees in the Adirondacks and Catskills. The average rainfall is between 40 and 45 in., but it is less than 30 in. in the Lake Champlain region and about 55 in. in New York City. About New York City the ocean moderates the cold of winter and tempers the heat of summer. The temperature along the lake shores is decidedly influenced by those

Agriculture. New York has large and varied agricultural interests. It has not been able to meet the competition of the western states in the production of grains, especially wheat and barley, but it has made great advances in dairying, the poultry and egg business, marketgardening, and in the production of flowers, ornamental plants, and all nursery products. It produces enormous crops of hay and forage. In the production of orchard fruits it is second only to California; it is first in the production of small fruits, flowers and plants and nursery products; and second in the value of the forest products of farms. The leading farm products of the state (in the order of value) are: hay and

large bodies of water.

forage, cereals, fruits and nuts, potatoes and sweet potatoes and yams, other vegetables, forest products, flowers and plants and nursery

products, and small fruits.

Fisheries. New York has large fishing industries, both marine and inland. The state fish hatcheries distribute millions of fish and eggs annually. Peconic Bay, at the eastern end of Long Island, yields more scallops than all the other waters of the United States. The state is extensively engaged in oyster culture and also in the culture of hard clams.

Minerals. More than thirty mineral substances are taken from the mines, quarries, and wells of New York. The chief mineral industries yield (in the order of their value) the following products: iron, clays, stone, cement, salt, petroleum, sand and gravel, and mineral

Manufactures. Although New York has important interests in agriculture and mining, its predominance is most marked in manufacturing. The geographic position and topography of the state, the great natural wealth of its fields, forests, mines, and quarries, and its wonderful transportation facilities, have each had a share in giving it the first place among the manufac-turing states of the Union, a place it has held since the completion of the Erie Canal in 1825. The more important industries, or groups of industries (judged by the value of output) are: clothing of all kinds, printing and publishing, foundry and machine shop products, slaughtering and meat packing, bread and bakery products, liquors, tobacco products, flour- and gristmill products, hosiery and knit goods, millinery and lace goods, electrical apparatus and supplies, paper and wood-pulp, boots and shoes, gas, dairy products, etc.

Education. The public schools of New York are among the best in the United States in point of equipment and in the work accomplished. The University of the State of New York is the State Department of Education, charged with the general management and supervision of all public schools and all the educational work of The University is governed by a Board of Regents, whose members are at all times three more than the existing judicial districts of the state. The Board of Regents is a legislative body, subordinate to the state legislature, for determining the general educational policy of the state; and a commissioner of education acts as the chief executive, advisory and supervisory, officer of the whole educational system. The regents are chosen by the legislature, one retiring each year. Education is compulsory between the ages of seven and sixteen years. Educational work is maintained chiefly by the proceeds of the Free School Tax levied in counties for common schools, and by the general state tax from which appropriations are made for education. Provision is made for industrial and trade schools, and ten normal schools and a normal college provide training for the teachers of common and secondary schools. Among the institutions of higher learning in the state are: Columbia University (1754), in New York City; Cornell University (1868), at Ithaca; Union University (1795), at Schenectady; Hamilton College (1812), at Clinton; Colgate University (1809), at Hamilton; Hobart College (1822), at Geneva; New York University (1832), in New York City; Fordham University (1841, Roman Catholic), in New York City; College of the City of New York (1849, New York City); and many others.

and many others. Government. New York is governed under a constitution adopted in 1894, and its subsequent amendments. The question as to whether there shall be a convention to revise the constitution must be submitted to the people every twenty years, beginning with 1916. The right of suffrage belongs to all male citizens of the United States who shall have attained the age of twenty-one years and have resided in the county for four months, and in the election district for thirty days next preceding election. Conviction of bribery or of an infamous crime disqualifies, and personal identification of voters is required in New York City. LEGISLATIVE. The legislative power of the state is vested in a Senate and an Assembly. The legislature meets at Albany in annual sessions beginning in January. Members of the Senate are elected every two years, and of the Assembly annually. only persons disqualified for membership in either house are those who at the time of the election or within one hundred days before the election were members of Congress, civil or military officers under the United States, or officers of any city government. Both senators and assemblymen are elected by single districts, apportioned according to population; but the representation of New York City in the Senate is limited by the provision that no county shall have more than one-third of all the senators, nor any two adjoining counties more than half of them. EXECUTIVE. The executive officers of the state are the governor, lieutenant-governor, secretary of state, state comptroller, state treasurer, attorney general, and state engineer and surveyor, all elected (in even-number years) for terms of two years. The governor appoints, subject to the approval of the Senate, a superintendent of public works, a superintendent of state prisons, a superintendent of insurance, a superintendent of banks, a commissioner of excise, a commissioner of agriculture, a forest, fish and game commissioner, a commissioner of health, a commissioner of labor, a state architect, a state historian, a state librarian, two public service commissions, a civil service commission, a board of charities, a commission of prisons, a commission in lunacy, three tax commissions, and other boards and commissions. The governor has the power to fill vacancies in the supreme and county courts, and in certain state offices. He may remove or suspend certain county and municipal officers on charges.

The governor's veto power may be extended to separate items in appropriation bills. governor has power to grant reprieves, commutations, or pardons, but he is required to report his action in each case to the legislature. candidate for the office of governor or lieutenantgovernor must be at least thirty years of age and must have resided within the state for five years next preceding his election. JUDICIARY. The judicial system of New York as at present constituted comprises a court of appeals, a supreme court and an appellate division of the same, a court of claims, and the usual county and city courts, including county surrogates and justices of the peace. The highest court in the state is not, as in most states of the Union, the supreme court, but the court of appeals. The chief judge and associate judges of the court of appeals are elected from the state at large for a term of fourteen years. Vacancies are temporarily filled from among the justices of the supreme court by the governor. Justices of the supreme court are elected for fourteen years from the nine districts into which the state is divided. Vacancies are temporarily filled by the governor. The state is divided into four departments, for each of which there is an appellate division of the supreme court. The justices and presiding justices of the appellate division are designated from among the justices of the supreme court by the governor; the presiding justice and a majority of the other justices of each department must be residents of the department. The judges of the court of claims are appointed by the governor for a term of six years. New York City has a judicial system of its own. LOCAL GOVERNMENT. The state is divided into counties each (unless wholly included in a city) having a board of supervisors elected for two years, one from every town or city ward. This board has charge of the administrative and legislative affairs of the county. Other county officers are a county judge, and a county surrogate, elected for a term of six years, a treasurer, a clerk, a district-attorney, a sheriff, and from one to four coroners, elected for a term of three years.

History. Before the coming of Europeans the territory now known as New York was occupied by the Iroquois Indians (Five Nations). New York Bay was entered by Verrazano in 1524. Almost simultaneously, in 1609, Samuel Champlain, the French explorer, penetrated the northeastern part of the state; and Henry Hudson, an Englishman in the service of the Netherlands, explored the Hudson River as far as the present site of Albany. A few years later (1613–14) settlements were made by the Dutch on Manhattan Island, and the region was called New Netherlands. Among the early Dutch governors were Minuit, Wouter van Twiller, Kieft, and Stuyvesant. New Amsterdam (New York City) was founded in 1623. The Dutch colony was devastated by an Indian war in 1641. England, basing her demands on the Cabot voyages, claimed the territory occupied

by the Dutch, and in 1664 forced its surrender, and renamed it New York. New York, New Jersey, and New England were consolidated under Andros in 1686-89. New York was the scene of many events in the French and Indian Wars. It was the scene of Burgoyne's surrender (1777), and other events in the Revolutionary

War and in the War of 1812. The completion of the Erie Canal in 1825 led to a rapid development of western New York and all of the states carved from the old Northwest Territory. New York City was the capital of the United States from 1785-90, and the state capital from 1784-

NORTH CAROLINA

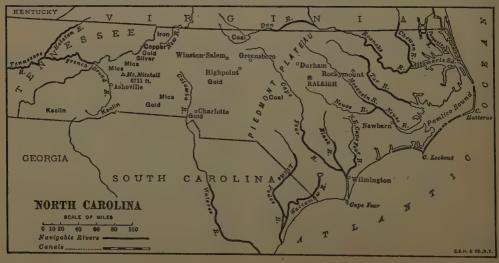
NORTH CAROLINA, one of the South Atlantic States and one of the thirteen original states of the Union, lies between latitudes 33° 50′ and 36° 33′ N., and longitudes 75° 30′ and 84° 25′ W. It is bounded on the N. by Virginia; on the E. and SE. by the Atlantic Ocean; on the S. by South Carolina and Georgia; and on the W. and NW. by Tennessee. In size, North Carolina ranks twenty-seventh among the states of the Union, having a gross area of 52,426 sq. m., of which 3,686 sq. m. are water surface. Its length from east to west (about 503) miles) is greater than that of any other state east of the Mississippi River.

Coast. The coast proper of North Carolina is fenced from the ocean by a chain of low sandy islands enclosing shallow lagoons and sounds. From these islands project Capes Hatteras, Lookout, and Fear, whose outlying shoals are dangerous to navigation. Between the chain of islands and the mainland are, Currituck, Albemarle. Pamlico, and other sounds—shallow. brackish, and almost tideless areas of water connected with the sea through a few inlets, such as

Ocracoke, Hatteras, and New Inlets.

Relief. North Carolina embraces three of the leading topographical regions of the eastern portion of the United States: the Coastal Plain Region; the Piedmont Plateau Region; and the Appalachian Region. The Coastal Plain extends inland from 80 to 150 miles, meeting the Pied-

mont Region at what is known as the "fall-line." The surface of the eastern part of this region is low, nearly level, and is known locally as the Flatwoods district. Toward the west the land becomes more rolling, and there are some hills along the western border. The "fall-line" has a very irregular course across North Carolina, but its general direction is SW. from the Falls of the Roanoke, between Halifax and Northampton Counties, to Anson County on the southern boundary. The Piedmont Plateau Region extends westward from this line to the Blue Ridge escarpment, and occupies about 20,000 sq. m. in the middle of the state. Its elevation ranges from about 350 ft. along the eastern margin to altitudes of 1,200 ft. in the western portion. The Blue Ridge escarpment, rising precipitously 1,000-1,500 ft. and more above the Piedmont Plateau consists of an intricate series of ranges and cross ranges, and contains the most elevated summits east of the Rocky Mountains. includes the high Unaka Mountain Range, known in different parts by local names such as Iron Mountains, Bald Mountains and Great Smoky Mountains. Mt. Mitchell (6,711 ft.), of the Black Mountains, a short cross range extending N. from the Blue Ridge through Yancey County, is the highest summit of the Appalachian system. Most of the mountains are clothed to their tops with thick forests, but the rounded summits of some are covered with



turf. All this region, known as the "land of the sky," is a favorite summer and winter resort.

Drainage. The streams of the Flatwoods district have shallow channels, and drainage is poorly established. In the more elevated portion of the Coastal Plain section the currents are faster, the channels deeper, and drainage is excellent. Between the estuaries of the rivers are extensive tracts of swamp land. The Piedmont section is practically devoid of swamps. and is well drained by numerous streams. The Blue Ridge is the principal water parting of the state. On its southeastern slope rise the Broad, the Catawba, and Yadkin Rivers, which reach the Atlantic through the state of South Carolina. In the northwestern part of the Piedmont Plateau Region rises the Dan, which crosses the boundary into Virginia, where it becomes a trib-utary of the Roanoke and its waters are returned to North Carolina near the "fall-line." The principal rivers having their courses wholly within the state are: the Cape Fear, the Neuse, and the Tar. West of the Blue Ridge, the Hi-wassee, the Little Tennessee and the French Broad Rivers flow west or northwest into the Tennessee, and farther north are the headwaters of the New River, which empties into the Ohio. In the mountain region and in the Piedmont Plateau Region the rivers have numerous falls and rapids, which afford immense water power. Altogether the rivers of North Carolina afford several hundred miles of inland navigation. In the Coastal Plain are a few shallow lakes lying in the midst of swamps.

Climate. The annual temperature for the state (below an elevation of 4,000 ft.) is nearly 59° F. In the SE. corner the climate approaches the subtropical, with a mean annual temperature of 64° F., but in the SW. part of the state it is only 50° F. Many places in the mountain belt are noted as health and pleasure resorts. The coast region has a hot, damp, summer climate, except in the pine woods sections. The average precipitation for the state is 52 in. a

year. The winds are variable.

Agriculture. Of the state's entire land area, more than seven-tenths (71.9 per cent) is in farms. There has been during the last decade a decrease in farm acreage and in the average size of farms, but the number of farms has increased and the total value of all farm property has increased 130 per cent. In recent years there have been several important changes in the crops raised. The development of cotton manufacturing in the south and the utilization of cottonseed-oil and meal have given a great impetus to cotton culture; and the discovery of the adaptability of much of the cotton land to the culture of tobacco has resulted in the development of a vast tobacco industry. The clearing of areas formerly occupied by pine forests, and improved transportation facilities have resulted in the growth of market-gardening for northern markets. The leading crops (in the order of their importance as judged by value)

are: cotton, corn, tobacco, cottonseed, peanuts, hay and forage, wheat, sweet potatoes and yams, potatoes, and oats.

Forests. North Carolina has still great quantities of merchantable timber, especially in the mountain region and on the Coastal Plain. The trees of the greatest commercial value are oak, chestnut and yellow pine.

Fisheries. The coastal waters and the lower courses of the rivers furnish important fishing grounds. The fisheries are chiefly of shad, oysters, mullet, clams, alewives, black bass, menhaden, croakers, and blue fish.

Minerals. Minerals in considerable variety, but not in great quantity, are found in North Carolina, including corundum, mica, bismuth, tale, soapstone, graphite, coal, phosphate rock, gold and silver. The quarries yield granite, limestone, and sandstone. Monazite and zincon are also found. The clay products of the state are the most valuable of the mineral products.

Manufactures. The harbors, rivers, and railway systems of North Carolina are important factors in furthering its manufacturing and commercial interests. The streams also furnish abundant water power, the use of which has increased during recent years. The large local supply of fuel is another factor which favors manufacturing. The principal industries of the state (given in the order of value of product) are: textiles (chiefly cotton goods), tobacco manufactures, lumber and timber products, cottonseed-oil and cake, flour- and grist-mill products, furniture and refrigerators, fertilizers, leather, hosiery and knit goods, and carriages and wagons.

Education. The present public school system of North Carolina is supervised by a state board of education, consisting of the governor, lieutenant-governor, secretary of state, treasurer, auditor, attorney-general, and superintendent of public instruction. In the counties there is a county board of education, and there is a local school committee of three in each township. School attendance between the ages of eight and fourteen for sixteen weeks each year was made compulsory for the entire state in 1914. At the head of the state system of education is the University of North Carolina, at Chapel Hill (1789), one of the oldest state universities in the country. Other state educational institutions are: the College of Agriculture and Mechanic Arts, at West Raleigh; the State Normal and Industrial College for Women, at Greensboro; and the East Carolina Teachers Training School, at Greenville. For the higher education of negroes the state maintains an Agricultural and Mechanical College at Greensboro, and Normal and Industrial Schools at Fayetteville, Elizabeth City, and Winston. The more important secondary schools are: Wake Forest College (Baptist), at Wake Forest; Davidson College (Presbyterian), at Davidson; Biddle University (Presbyterian—for negroes), at Charlotte; Greensboro Female College (Methodist Episcopal), at Greensboro; Guilford College (coeducational—Society of Friends), near Greensboro; Trinity College (coeducational—Methodist), at Durham; Lenoir College (Lutheran), at Hickory; Catawba College (Reformed), at Newton; St. Mary's College (Roman Catholic) at Belmont; Shaw University (Baptist—for negroes), at Raleigh; Elon College (Christian), at Elon; and Livingston College (Methodist—

for negroes), at Salisbury. North Carolina is adminis-Government. tered under the constitution of 1868, with various amendments since that time. All male citizens of the United States, resident in the state for two years and in the county for six months next before the election, and registered, have a vote. For registration the requirements are payment of poll-tax and ability to read and write in English (a test not imposed on descendants of voters of 1867). EXECUTIVE. The governor is elected by popular vote for four years, and is ineligible to succeed himself in office. He is assisted in administration by a council of state, a kind of administrative cabinet, consisting of the secretary of state, auditor, treasurer and the superintendent of public instruction. Other executive officers are: lieutenant-governor, attorney-general, a bureau of labor statistics, and a corporation commission. The governor appoints certain minor executive officials, subject to the confirmation of the Senate. Judges, heads of departments, and executive boards are elected. The governor and lieutenant-governor must at the time of their election be at least thirty years of age, must have been citizens of the United States for five years, and residents of the state for two years. LEGISLATIVE. The legislative body of the state is known as the General Assembly, composed of a Senate and a House of Representatives. Its sessions are held at Ra-leigh, biennially, beginning on the Wednesday after the first Monday in January (odd number years). The session is limited to 60 days. Senators are elected biennially by senatorial districts as nearly as possible equal to one another in population. Members of the House of Representatives, elected biennially, are chosen by counties according to their population, each county having at least one representative, no matter how small its population. A senator

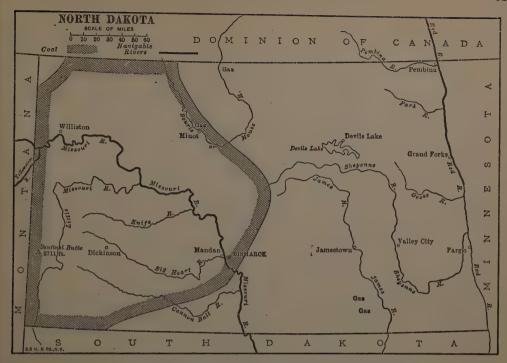
must at the time of his election be at least twenty-five years of age, and must have been a resident and citizen of the state for at least two years, and a resident in his district for one year immediately preceding his election. A representative must be a qualified elector of the state, and must have resided in his county for at least one year immediately preceding his election. Extra sessions may be called by the governor on the advice of the council of state, are limited to twenty days, but may be extended under certain limitations. Judiciary. There is a supreme court, consisting of a chief justice and four associates, elected by popular vote for terms of eight years; and a superior or circuit court composed of sixteen judges, elected by the people in each of sixteen districts for terms of eight years. LOCAL GOVERNMENT. The county officials are the sheriff, coroner, treasurer, registrar of deeds, surveyor, and five commissioners, elected for two years; the commissioners supervise the penal and charitable institutions, schools, roads, bridges, and finances of the county. Subordinate to the commissioners are the township boards of trustees, composed of a clerk and two justices of the peace.

History. Unsuccessful attempts were made to colonize the Carolina region under the auspices of Sir Walter Raleigh in 1584-87. The first permanent English settlement was made by Virginians at Albemarle, on the Chowan River, about 1660. The territory was granted to proprietors in 1663 and 1665. An attempt was made to introduce a constitution framed by Shaftsbury and Locke in 1669, but it ended in failure. A Royal Province was formed in 1729, when North and South Carolina were separated. The "Mecklenburg Declaration of Independence" was passed in 1775; it is claimed that this document formed the model for the Declaration of 1776. North Carolina was the scene of several battles in the Revolution (1780-81); rejected the United States Constitution in 1788, but adopted it in 1789; seceded May 20th, 1861. It was the scene of various engagements and military operations in the Civil War, particularly in connection with Burnside's expedition in 1862, the capture of Wilmington and other ports, and Sherman's March in 1865; and was readmitted to the Union in July, 1868.

NORTH DAKOTA

NORTH DAKOTA, a West North-Central State of the United States, lies between latitudes 45° 56′ and 49° N., and longitudes 96° 28′ and 104° 3′ W. It is bounded on the N. by the Dominion of Canada; on the E. by Minnesota; on the S. by South Dakota; and on the W. by Montana. North Dakota has an extreme length from east to west of 360 m:, and an extreme width from north to south of 210 miles. In gross area it ranks sixteenth among the states of the Union (70,837 sq. m., of which 654 sq. m. represent water surface).

Relief. North Dakota lies in the Prairie Plains and Great Plains Provinces of the United States, the two provinces being separated from each other by an elevated belt (Coteau du Missouri), which from the northwest corner crosses the state in a southeasterly direction. All north and east of the Coteau du Missouri is in the Prairie Plains section, that to the southwest in the Great Plains Province. Along the eastern margin of the state, occupying a belt from 30 to 60 m. in width, lies the western portion of the great Red River Valley. In this section are



found the lowest elevations of the state, which range from about 800 ft. at Pembina in the northeast corner, to about 1,000 ft. (above sea level) at Wahpeton in the extreme southeast. Immediately to the west of this level valley lies a higher region of rolling upland, from which the valley is separated in the north by an abrupt slope rising to a height of from 300 to 500 ft. above the surrounding country, the Manitoba escarpment, the Pembina Mountains—low hills about 30 m. west of the Red River—forming the southern extension of this escarpment. From these hills southward the division between the valley and the plateau is less abrupt, and in Walsh County it merges into prairie. The ascent to the upper plain then becomes very gentle until it reaches the southeastern portion of Sargent County, when it changes into the more abrupt Coteau des Prairies, a plateau about 2,000 ft. above sea level. This high western part of the Prairie Plains Province is a region of gently rolling prairies broken by but one group of hills, the Turtle Mountains, which rise from 300 to 400 ft. above the general level near the center of the northern boundary. West of the Coteau du Missouri the surface rises gradually westward until it attains a general level of about 2,700 feet. West of the Missouri River a considerable part of the surface overlies beds of lignite, and the prairies are broken in the vicinity of streams by deep ravines and gulleys-the result of erosion. In the "Bad Lands," Les Terres Mauvaises of the

early French explorers—so named on account of the difficulties which here met the traveler—the surface has been carved into fantastic forms, and offers many picturesque features, including petrified forests, and other evidences of a vegetable growth now extinct.

Drainage. There are two drainage systems within the state of North Dakota—the Red River (of the North) and its tributaries, and the Missouri River and its tributaries. The chief tributaries of the Red River, wholly within the state, are the Sheyenne, the Goose, the Park, and the Pembina. A part of the Red River system is the Souris, or Mouse River which, rising in Canada, crosses the international boundary near the meridian of 102° W. longitude, flows southeast for about 70 m., then turns to the north and near the 101st meridian reenters British territory and joins the Assiniboin, which in turn enters the Red River at Winnepeg. The Missouri River crosses the western boundary near the 48th parallel of N. latitude, and after pursuing a winding course in a general southeasterly direction, enters South Dakota near the center of the boundary The James River, flowing southward into South Dakota, is the Missouri's only important eastern tributary within the state. From the west the Missouri receives the waters of the Little Missouri, the Knife, the Big Heart, and the Cannon Ball Rivers. All that part of the state lying west of the Pembina Mountains and east of the Souris River is practically without

river drainage, and for its surface and subsurface drainage Devil's Lake, a very irregular and strongly saline body of water having an area of about 400 sq. m., forms a natural reservoir. The entire region west of the Red River Valley and east of the Missouri River is dotted with small lakes, many of which are strong with salt and alkali.

Climate. North Dakota has a dry, invigorating, and remarkably healthful climate. uniformity of topography makes the ranges of temperature for different parts of the state very nearly the same, and between the extreme northern and southern sections there is a range of only 6 or 7 degrees F. High temperatures in summer and low temperatures in winter are The mean annual temperature for the the rule. state is 39° F., with a maximum of 110° recorded for the summer and a minimum of -54° for the winter. At Jamestown, in the central part of the state, the mean annual temperature is 40°; the mean for the winter 10°, and the mean for the summer 67° F. The summers are short, the winters long and cold. High winds are frequent and tornadoes are not unknown. rainfall for the whole state is sufficient for growing green crops without irrigation, the normal annual precipitation ranging from about 15 in. at the western boundary to about 20 in, on the eastern boundary. In the extreme western part of the state irrigation is practised to a limited extent.

Agriculture. The alluvial and lacustrine soils of the Red River Valley are predominantly black to dark brown clay loams and clays characterized by a highly calcareous subsoil. These constitute the great spring wheat soils of North Dakota. The soils west of the valley consist of drift, and are well suited to the growing of grain. The drift becomes thinner towards the west, and finally disappears in the semiarid regions of the Missouri River Valley. In this region the soils of sand and clay are much finer than the drift, and are very productive when sufficiently watered. Agriculture is by far the most important industry of the state, but owing to climatic conditions it is limited to a few staple The growing season is too short for maize or Indian corn, and no winter wheat can The climate is too severe for the larger fruits—such as apples, pears, peaches, plums, and grapes—but the small hardy fruits thrive and are grown in abundance. The leading crops of the state (in the order of their importance as judged by value) are: wheat, oats, flaxseed, hay and forage, barley, corn, and potatoes. Wheat represents in both acreage and value more than two-thirds of all cereals com-

Minerals. The mineral resources of North Dakota are inconsiderable. Beds of lignite underlie a large portion of the western half of the state, but the coal is poor in quality and soon crumbles into powder on being exposed to air. Cement is made, and the clay products of the

state are used in the manufacture of tile and brick. Sandstone occurs in some areas, as do also granite and gneiss, but these materials are not quarried.

Manufactures. Although North Dakota is primarily an agricultural community, the total value of manufactured products of the state has increased steadily at each census since 1899. Prior to that year manufacturing was limited almost entirely to the so-called neighborhood, hand, and building industries; and with the exception of the flour-mill and grist-mill industry, practically the entire production was made for local consumption. The latter statement continues to be true to a considerable extent. The most important industries (arranged in the order of value of products) are flour-milling and grist-milling, and the manufacture

of butter, cheese, and condensed milk. Education. At the head of the public school system is a superintendent of public instruction, chosen for two years. He, with the governor and president of the State University, constitutes a high school board having supervision of the secondary schools. In each county there is a county superintendent, elected biennially, and in each public school district is a board of directors. The minimum school term allowed by law is seven months, and the schools are open to all pupils between the ages of six and twentyone years of age. Attendance is compulsory. Higher education is provided by three normal schools, a state agricultural college at Fargo, and the University of North Dakota at University. The state maintains a school for the deaf at Devil's Lake, a school of forestry at Bottineau, and a scientific school at Wahpeton. Among other private institutions may be mentioned Fargo College (non-sectarian), at Fargo; and Wesleyan College (Methodist Episcopal), near Grand Forks.

The state is governed under Government. the constitution adopted in 1889, and its amendments. All citizens of the United States residing in North Dakota are declared to be citizens of the state. The right of suffrage belongs to all male citizens twenty-one years of age and over, who are citizens of the United States or have declared their intention to become such, and who have resided in the state one year, in the county six months, and in the voting precinct ninety days preceding election. Civilized Indians who have severed their tribal relations two years before election are entitled to vote. Women may vote for all school officers and upon all questions relating solely to school matters, and are eligible to any school office. EXECUTIVE. The executive officers of the state are the governor, lieutenant-governor, secretary of state, auditor, treasurer, superintendent of public instruction, commissioner of insurance, three commissioners of railways, attorney-general, and commissioner of agriculture and labor. Each of these officers is chosen biennially. The governor and lieutenantgovernor must be at least thirty years of age,

and all other officers at least twenty-five. The governor has a limited pardoning power, and may veto appropriation bills by items, but his veto may be overridden by a two-thirds vote of each house. Legislative. The state legislature consists of a Senate and House of Representa-It meets at Bismarck biennially (even number years), the session being limited to 60 Members of the Senate are elected for four years, and half the number retire biennially. Members of the House of Representatives are chosen for two years. The minimum age for senators is twenty-five years, and for representatives twenty-one years. Judiciary. The state judiciary consists of the supreme court, district courts, county courts, municipal courts, and courts of justice of the peace. The supreme court consists of five judges, elected by popular vote for ten years. There are twelve district courts, each having one judge, elected for four years. A judge of the county court is chosen for two years. Local Government. For the administration of local government the state is divided into counties, and in those which have not adopted a township organization, county affairs are administered by a board of county commissioners; where the township organization has been adopted the county govern-

ment is administered by the chairman of the several township boards. For each county there are a judge, clerk, register of deeds, auditor, treasurer, sheriff, and state's attorney.

History. North Dakota was visited by traders of the Hudson Bay Company towards the close of the 18th Century. It formed a part of the region ceded by France to the United States by the Louisiana Purchase of 1803. It was successively a part of the District of Louisiana, of the Louisiana Territory, the Missouri Territory, the Territory of Michigan, Wisconsin Territory, Iowa Territory, and of Minnesota Territory. The first permanent settlement was made by a company of Scottish Highlanders at Pembina in 1812. These people had formerly been located at Winnipeg and supposed their new settlement was in British Territory. The Territory of Dakota was created in 1861 and included the present Dakotas and portions of Wyoming and Montana. In 1863 the boundaries of the Dakotas were fixed at practically their present limits. The settlement of the territory was impeded by the Civil War and also by Indian hostilities. Rapid development began in 1872; the territory was divided into North and South Dakota, and both states entered the Union as states in 1889.

OHIO

OHIO, an East North-Central State of the American Union, lies between latitudes 38° 26′ and 41° 58′ N., and longitudes 80° 30′ and 84° 49′ W. It is bounded on the N. by Michigan and Lake Erie; on the E. by Pennsylvania and West Virginia; on the S. by West Virginia and Kentucky; and on the W. by Indiana. The state has an extreme length from north to south of over 210 m., a width from east to west of 220 m., and a gross area of 41,040 sq. m., of which 300 sq. m. represent water surface; in size, it ranks thirty-fifth among the states of the Union.

Coast. Lake Erie forms the northern boundary for a distance of 230 m. and several first-class harbors have been formed at the mouths of some of the rivers emptying into it. At the western end of the lake are Sandusky and Maumee Bays, each with a good natural harbor, and north of these are a number of small islands

which are included in the state.

Relief. The extreme eastern part of the state consists of a border of the Appalachian Plateau, gently rolling and hilly; the rest of the state forms the northeast portion of the low plateau which constitutes the upper part of the Mississippi Drainage Basin. As a whole, the state may be described as an extensive and moderately undulating plain, with an average elevation of about 850 ft. above the sea. A line of elevation extends from the northeastern corner, in a southwesterly direction, to Darke county, about the middle of the western boundary line. This divide has an average elevation of about 1,100 feet. The highest point in the state (Belle-

fontaine, 1,540 ft.) is in Logan county, in the west-central part. North of the dividing ridge,



the surface gradually declines toward Lake Erie (elevation 573 ft. above the sea). South of the dividing ridge, the slope towards the Ohio is somewhat steeper. Southeast Ohio is rugged and hilly, in places deeply cut into a labyrinth of narrow ravines. The Ohio and many of its tributaries have cut for themselves deep troughlike valleys, and their banks have a remarkably

bold and picturesque aspect.

Drainage. The dividing ridge, mentioned above, separates the waters flowing to Lake Erie from those flowing to the Ohio River. Nearly all of the streams of the northeastern part of the state have a rapid current. Those that flow directly into the lake are short, but several of the rivers of this region, such as the Cuyahoga and the Grand, follow circuitous courses and flow through narrow valleys with numerous falls and rapids. In the north-central part of the state, the Black, the Vermilion, and the Huron Rivers have their sources in swamps on the waterparting, and flow directly to the lake through narrow valleys. The plains of northwest Ohio are drained chiefly by the Sandusky and Maumee Rivers, with their tributaries. South of the waterparting the average length of the rivers is greater than that of those to the north of it. The Ohio River, in its course of 435 m. along the southern boundary line, falls from 665 ft. above the sea on the eastern boundary, to 433 ft. at the southwestern angle of the state. The main tributaries of the Ohio are: the Muskingum, draining the eastern part of the state; the Scioto and its tributaries, draining the central and middle portions; and the Little Miami and the Great Miami, draining the western portion. The Ohio is navigable from Pittsburgh to its mouth, except in the low stages of water in summer, or when it is closed by ice in winter. Ohio has no large lakes within its limits, but there are several small ones on or near the waterparting.

Climate. The mean annual temperature of Ohio is nearly 51° F.; in the north, 49.5°, and in the south, 53.5° F. Except where influenced by Lake Erie, the temperature is subject to great extremes. July is the warmest month; and, in most parts of the state, January is the coldest. The normal annual precipitation for the entire state is 39 in.; it varies from about 30 in. at Toledo, to 42 in. at Marietta. Nearly 60 per cent of it comes in the spring and summer. The average annual fall of snow is about 36 in. in the north, and 21 in. in the south. The prevailing winds in most parts of the state are westerly, but sudden changes as well as extremes of temperature are caused by the frequent shiftings of the winds from northwest to southwest, and from southwest to northwest. At Cleveland and Cincinnati, the prevailing winds are from the southeast.

Agriculture. The statistics of the United States Census Bureau show that Ohio is among the leading agricultural states of the Union. Indian corn, wheat, and oats are grown in all

parts of the state; but the western half produces about three-quarters of the Indian corn and twothirds of the wheat; and in the northern half, especially in the northwest corner, are the best oat producing counties; the northeast quarter ranks highest in the production of hay. Domestic animals are evenly distributed throughout the state. Dairying and the production of eggs are important industries in all sections. of the tobacco is grown in the counties on or near the southwest border. The general character of Ohio agriculture is indicated by the fact that about three-fifths (59.9 per cent) of the total value of crops is contributed by the cereals; somewhat less than one-fifth (18.4 per cent) by hay and forage; and somewhat less than onetenth (9 per cent) by potatoes and other vegetables. The remainder, representing in value 12.7 per cent of the total, consists mostly of tobacco, fruits and nuts, and forest products. The leading crops (in the order of their importance as judged by value) are corn, hay and forage, wheat, oats, vegetables (other than sweet potatoes and yams), potatoes and tobacco.

Forests. The state was originally covered with a dense forest, mostly of hardwood, and although the merchantable portion of this has been practically cut away, there are still undergrowths of timber, and a great variety of trees. The white and other varieties of oak, several varieties of hickory, ash, poplar, pine, elm, birch, locust, cherry, beech, and black walnut, are among the trees found in the woodland areas.

Fisheries. The only commercial fishing of importance is in Lake Erie. Propagation facilities are being greatly improved, and there are stringent laws for the protection of immature fish. Inland streams and lakes are well supplied with game fish.

Minerals. Ohio has extensive mineral resources, the principal products being bituminous coal and petroleum. The state also ranks high in the production of natural gas, sandstone, limestone, and gypsum. The coal fields, having an area of about 12,000 sq. m., are in the eastern half of the state. Two of the most productive petroleum fields of the United States are in Ohio—the Appalachian field in the eastern and southern parts of the state, and the Lima-Indiana field in the northwestern part. Natural gas abounds in the eastern, central, and northwestern parts of the state. There is some iron ore in the eastern and southeastern parts of the state, but the output is steadily decreasing. Ohio produces valuable clays and glass-sands.

Manufactures. Ohio is largely a manufacturing state, its industrial prominence being due, in the main, to its many natural resources—fertile soil and abundant supplies of coal, natural gas, and petroleum. Taken in the order of their value, the leading manufacturing industries are: iron and steel, foundry and machine-shop products, slaughtering and meat packing, flour-mill and grist-mill products, printing and publishing,

automobiles, lumber and timber products,

boots and shoes, tobacco, etc.

Education. The public schools of Ohio are under the general supervision of a state commissioner of common schools. Each school district has its own board of education elected by popular School attendance is compulsory for children between the ages of eight and fourteen. School revenues are derived from the sale and rental of public lands granted by Congress, from the sale of salt and swamp-lands devoted by the state to such purpose, from a uniform levy on the taxable property in the state, from local levies in township districts, from certain fines and licenses, and from tuition fees paid by nonresident pupils. The Ohio University at Athens. the Miami University at Oxford, and the Ohio State University at Columbus, are supported in large measure by the state. Wilberforce University (for negroes), near Xenia (under the control of the African Methodist Episcopal Church), is in part supported by the state, which maintains three normal and industrial depart-Normal colleges, supported by the state, have also been created in connection with Ohio and Miami Universities. Among many other colleges and universities in the state are Western Reserve University, at Cleveland; the University of Cincinnati, at Columbus; and

Oberlin University, at Oberlin.

Government. Ohio is governed under the constitution of 1851 and its subsequent amendments. The right of suffrage belongs to all male citizens of the United States who have resided, in the state one year, in the county thirty days, and in the township twenty days next preceding Women who possess the usual qualifications required of men may vote for members of boards of education, and are eligible to the same offices. EXECUTIVE. The executive officers of the state are the governor, lieutenantgovernor, secretary of state, auditor, treasurer, attorney-general, adjutant-general, a commissioner of insurance, and a superintendent of education. The governor is elected in November of even number years for a term of two years. His veto power extends not only to items in appropriation bills, but to separate sections in other measures; and in addition to the customary provision for the passing of a bill over the governor's veto by a two-thirds vote of each house, it is required that the votes for re-passage in each house must not be less than those given on the original passage of the bill. The governor is commander-in-chief of the state's military and naval forces, except when they are called in the service of the United States. He grants pardons and reprieves on the recommendation of the State Board of Pardons. In case of the governor's death, resignation, or impeachment, the officers next in succession are the lieutenant-governor, the president of the Senate, and the Speaker of the House of Representatives, in the order named. Legis-LATIVE. The state legislature consists of a

Senate and a House of Representatives. It meets at Columbus, biennially (odd, number years), and no limit is set by law to the length of session. Members of both houses are elected for terms of two years. They must be residents of their respective counties or districts for one year preceding election, unless absent on public business of the state or of the United States. The Senate passes upon executive appointments, and tries impeachment cases brought before it by the House of Representatives; otherwise the powers of the two houses are equal in every respect. Judiciary. The judicial department of the state is composed of a supreme court of seven judges, eight circuit courts (of three judges each), ten common pleas courts, the circuit court of Cincinnati, probate courts, courts of insolvency in Cuyahoga and Hamilton Counties, juvenile courts, justices of the peace courts, and municipal courts. All judges are elected by direct popular vote, the judges of the supreme court being chosen at large. Judges of the supreme court, circuit courts, and common pleas courts serve for terms of six years; probate judges and justices of the peace, for terms of four years. Local Government. The county and the township are the units of local govern-The chief county authority is vested in a board of three commissioners, elected for terms of two years. Other county officers are the sheriff, treasurer, and coroner, elected for two years; the auditor, recorder, clerk of courts, prosecuting-attorney, surveyor and infirmary directors, elected for two years. The chief township authority is vested in a board of three trustees, elected by popular vote for two years; other township officials are the clerk, treasurer, assessor, supervisor of roads, justices of the peace, constables, board of education, and board of health. Municipalities are divided into two classes—cities and villages—the former having a population of 5,000 or more. The chief authority in both cities and villages is a board of control, composed of the mayor and the directors (appointed and removable by the mayor) of two municipal departments—public service and public safety; a municipal civil service commission of three members; and a city auditor, treasurer, and solicitor.

History. Ohio was part of the Northwest Territory which, besides Ohio, embraced what are now the states of Michigan, Indiana, Illinois, Wisconsin, and the northeast corner of Minnesota. It was discovered by Europeans late in the first half of the 17th century, and was claimed by both France and England. France founded her claim on exploration and occupation covering the period between the middle and the close of the 17th Century; England based her claim to the same territory on the discovery of the Atlantic coast by the Cabots, and upon the Virginia, Massachusetts, and Connecticut charters, under which these grants extended westward to the Pacific Ocean. New York also had a claim to the territory. The contest between France

and England, known as the Seven Years' War, ended in the cession of the entire Northwest to Great Britain. After winning the Northwest Territory, however, Great Britain no longer recognized those claims of her colonies to this territory which she had asserted against France, and finally annexed the region to the Province of Quebec. This embittered the colonies and was one of the grievances which brought on the War of Independence, and during that war, the Northwest was won for the Americans by George Rogers Clark. Marietta (founded in 1788), at the mouth of the Muskingum, is re-

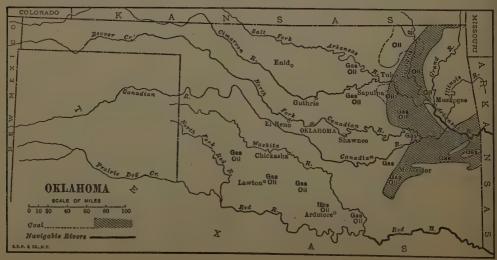
garded as the oldest permanent settlement of the state, and the first territorial government was established there. The state was admitted to the Union in 1803. Ohio was the scene of many important actions during the War of 1812, among them 'Commodore Perry's victory on Lake Erie, in 1813. In no other state have been found so many evidences of man's antiquity as exemplified in implements of stone, copper, bone, and clay, while the most extensive and elaborate systems of earthworks in America have been found at Newark, near Chillicothe, and on the Miami bluffs, near Waynesville.

OKLAHOMA

OKLAHOMA, a West South-Central State of the United States, lies between latitudes 33° 33′ and 37° N., and longitudes 94° 30′ and 103° W. The greater portion of the state is bounded on the west by the 100th meridian; the only part lying west of that is a strip of land about 35 m. wide occupied by Beaver, Texas, and Cimarron Counties. Oklahoma is bounded on the N. by Colorado and Kansas; on the E. by Missouri and Arkansas; on the S. by Texas; and on the W. by Texas and New Mexico. In gross area (70,057 sq. m., of which 643 sq. m. represent water surface) it ranks seventeenth among the states of the Union.

Relief. The topography of the state is quite varied, but in general terms the surface may be described as a vast rolling plain, having a gentle southern and eastern slope. The elevations range from less than 400 ft. above sea level in southeastern Oklahoma to nearly 5,000 ft. in the northwestern part of the state, but the mean elevation for the whole state is about 1,300 feet. The Ozark Mountain Uplift enters Oklahoma near the middle of the eastern boundary and extends in a general westerly direction half way

across the state. It forms a chain of hills which gradually decrease in height towards the west. In the south-central part of the state is an elevated tableland, known as the Arbuckle Mountains, which in its western portion attains an elevation of about 1,350 ft. above the sea, and 400-500 ft. above the surrounding plains. To the northwest of the Arbuckle plateau are the Wichita Mountains, a straggling range of peaks extending a distance of about 70 m., from Lawton in Comanche County, northwestward to Beckham County. The highest peaks of this range are not more than 1,500 ft. above the plain. In Blaine and Canadian Counties are a group of hills known as the Chautauqua Mountains, having their main axis parallel with the North Fork of the Canadian River. With the exception of the clusters of hills above described, the western portion of the state consists almost entirely of wide treeless plains. The extreme northwestern part of the state is a lofty table-land having an altitude of 3,000-5,000 ft. above the sea, and forming a part of the Great Plains Region east of the Rocky Mountains. West of the Neosho, or Grand River, and north of the



Arkansas, the prairies have been much worn and eroded by numerous small streams; south of the Arkansas the evidences of erosion are less marked. A striking physiographic feature of the state is found in the salt plains of the northwest, of which the most noted is the Big Salt

Plain of the Cimarron River.

Drainage. The drainage is almost wholly from northwest to southeast. The southern part of the state is drained by the Red River and its chief tributaries, the North Fork, the Washita, and others. The rest of the state is drained by the Arkansas River and its tributaries. The Arkansas enters the state from the north, follows a general southeasterly course, and cuts the eastern boundary near its center, where it enters the state of Arkansas. Its tributaries from the north and east are the Verdigris, the Neosho or Grand, and the Illinois. From the south and west it receives the waters of the Salt Fork, the Cimarron, and the Canadian with its numerous tributaries. The Arkansas and the Red River are navigable for boats of light draft for some distance, thus giving water connection with the Mississippi.

Climate. The climate of the state is continental in type, with great annual variation of temperature. The western and central portions of the state, on account of their greater elevation and greater distance from the Gulf coast, are cooler and drier than the eastern. At Oklahoma City, in the center of the state, the mean annual temperature is 59° F. The mean for the summer is 78° with an extreme record of 104°; the mean for the winter is 38° with an extreme record of -17° F. The mean annual precipitation for the state is 31.7 in., the variation between the east and the west being about 12 inches. The rainfall ranges from about 17 in. at the western boundary to about 40 in. at the eastern boundary, and is sufficient in the greater part of the state for the growing of most crops without irrigation. In the extreme western part of the state irrigation is

practised to a limited extent.

Agriculture. Oklahoma is mainly an agricultural state, and nearly 70 per cent of the total area of the land is in farms. The general character of Oklahoma agriculture is indicated by the fact that somewhat more than one-half (53.8 per cent) of the total value of crops is contributed by the cereals, and somewhat less than onethird (30.9 per cent) by cotton. The remainder, representing 15.3 per cent of the total, consists mostly of hay and forage, and potatoes and other vegetables. The principal crops (given in the order of their importance as judged by value) are: corn, cotton, wheat, hay and forage, oats, cottonseed, broom-corn, and Kafir corn. Among other crops, flax is widely grown. raising of flowers and plants and of nursery products, and the cultivation of small fruits and of orchard fruits, grapes, nuts, and tropical fruits, are of increasing importance. Stockraising is the principal industry of the western part of the state.

Minerals. The mineral products consist of petroleum, natural gas, coal, asphalt, gypsum, granite and limestone, sand and gravel, and clay products. The only important metals are zinc and lead. Mineral waters are bottled at several springs.

Forests. The merchantable timber is mostly in that part of the state which formerly constituted Indian Territory. It consists largely of black walnut and other valuable hardwoods, in the bottom lands; of black-jack and post-oak, in the uplands; and of pine, on the higher eleva-

tions south of the Arkansas River.

Manufactures. The manufactures of Oklahoma have increased rapidly in their importance, although many of the industries are as yet in their infancy. A marked increase in the independent manufacturing activities of the state commenced with the development of the oil fields in 1907 and the discovery of natural gas. This cheap fuel has attracted manufacturers, who have established a number of new enterprises. An abundance of coal and lumber, and the location in the state of such minerals as gypsum, cement rock, asphalt, granite, limestone, lead, and zinc, have further stimulated manufacturing. The most important manufactures (arranged in the order of value of products) are: flour-mill and grist-mill products, cottonseed-oil and cake, lumber and timber

products, and printing and publishing.

Education. The common school system is administered by the state superintendent of public instruction, a state board of education, county superintendents, and district boards. The state board is composed of the state superintendent, who is president of the board, the secretary of state, the attorney-general, and the governor. Each district board is composed of three members elected for a term of three years, one each year. Each district school must be open at least three months each year, and children between the ages of eight and sixteen are required to attend either a public or a private school unless excused because of mental or physical infirmity. There are separate schools for whites and negroes. In addition to the instruction in the ordinary branches, teaching in the district schools includes instruction in the elementary principles of agriculture, horticulture, animal husbandry, stock-feeding, forestry, building country roads, and domestic science. The higher institutions of learning established by the state are: the Oklahoma Agricultural and Mechanical College, at Stillwater; the Oklahoma School of Mines, at Wilburton; the Colored Agricultural and Normal University, at Langston; the Central Normal School, at Edmond; the Northwestern Normal School, at Alva; the Southwestern Normal School, at Weatherford; the Southwestern Normal School, at Durant; the East-Central Normal School, at Ada; the Northeastern Normal School, at Tahlequah; and the University of Oklahoma, at Nor-

Government. Oklahoma is governed under a constitution adopted in 1907, and its amend-An elector must be able to read and write (unless he or an ancestor was a voter in 1866 or then lived in some foreign nation) and must be twenty-one years of age or over, a resident of the state for one year, of the county for six months, and of the election precinct for thirty days; women have the privilege of voting at school meetings. Executive. The chief executive officers are the governor, lieutenant-governor, secretary of state, treasurer, auditor, examiner, inspector, commissioner of labor, commissioner of insurance, chief mine inspector, commissioner of charities and corrections, and president of the board of agriculture. All executive officers are elected for four years, but the governor, secretary of state, auditor, and treasurer are ineligible for the next succeeding The governor has limited appointing powers, and his appointments are subject to the confirmation of the Senate. His pardoning power is subject to the advice of the state board of pardons. His veto power extends to items in appropriation bills, but it may be overridden by a vote of two-thirds of the members elected to each house. Legislative. The legislature is composed of a Senate and a House of Representatives. Members of the Senate are elected by districts for terms of four years, one half the number retiring every second year; members of the House of Representatives are elected by counties for two years. Sessions, beginning the first Tuesday after the first Monday in January, are held at Oklahoma City biennially, in odd number years. JUDICIARY. The state judiciary includes a supreme court of five judges, elected for terms of six years; a criminal court of appeals composed of three justices, appointed by the governor with the advice and consent of the Senate; twenty-one district courts each with one or more justices, elected for a term of four years; a county court in each county with one justice, elected for a term of two years; justice of the peace courts, members of which are elected for a term of two years, one in each of six districts in each county; and police courts in the LOCAL GOVERNMENT. The general cities.

management of county affairs is entrusted to three commissioners elected by districts. The other county officers are a treasurer, clerk, register of deeds, attorney, surveyor, sheriff, assessor, and superintendent of public instruction. The counties have been divided into municipal townships, each of which elects a trustee, a clerk, and a treasurer, who together constitute a board of directors for the management of township affairs. The trustee is also the assessor.

History. With the exception of the narrow strip comprising the counties of Beaver, Texas, and Cimarron, the territory included in the present state of Oklahoma was set apart by Congress, in 1834, under the name of Indian Territory, for the possession of certain Indian tribes. Oklahoma, the western part of Indian Territory, was ceded by the Indians to the United States in 1866. The treaties under which these lands were transferred to the United States stipulated that they were to be used by the government for the settlement of other Indian tribes or freedmen, but were not to be open to whites. It was not long before speculators and adventurers attempted to secure possession of it. Many parties of so-called "Boomers" entered the territory, and the military forces of the United States were required to eject them. In 1889 arrangements were concluded with certain Indian tribes by which, in consideration of the payment by the government of several million dollars, the clause forbidding settlement by white citizens on the land ceded by them in 1866 was cancelled, and it was thrown open for settlement at noon on April 22, 1889. In 1890, this portion of Indian Territory, together with the narrow strip north of Texas, became Oklahoma Territory. In 1893 Congress opened negotiations with the Indians which led to the passage of the Curtis Act in 1898. That act provided for individual allotment of land to the Indians of Indian Territory, and for a govern-ment administered from Washington. When the allotments were nearly all made, Congress, in 1906, authorized Oklahoma and Indian Territories to qualify for admission to the Union as one state, and the state was admitted to the Union on the 16th of November, 1907.

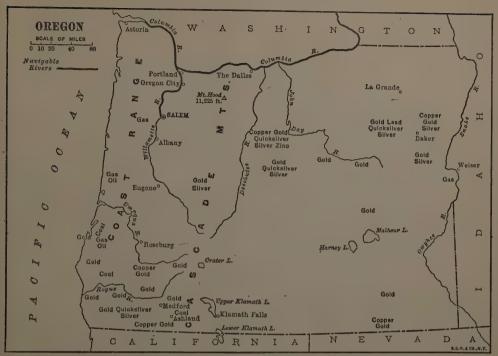
OREGON

OREGON, one of the Pacific States of the United States lies between latitudes 42° and 46° 18′ N., and longitudes 116° 28′ and 124° 30′ W. It is bounded on the N. by Washington, on the E. by Idaho, on the S. by Nevada and California, and on the W. by the Pacific Ocean. It has an extreme length from east to west of 375 m., and an extreme width from north to south of 290 miles. In gross area it ranks ninth among the states of the Union (96,699 sq. m., of which 1,092 sq. m. represent water surface).

Coast. Oregon has about 300 m. of coast line, extending in a general north-south direction, and consisting of long stretches of sandy

beach broken occasionally by lateral spurs of the Coast Range, which project boldly into the sea and form high rocky headlands. With the exception of the mouth of the Columbia River, the bays and inlets which indent the shore are small and of very little importance.

Relief. About twenty miles inland runs an irregular chain of hills parallel with the coast, known as the Coast Range. It has a moderate elevation, but has numerous lateral spurs, especially toward the west. The general elevation of this range increases from north to south, and the range in some respects resembles a plateau. In the southern part of the state it merges with



the Klamath Mountains, lying partly in Oregon and partly in California. The Cascade Mountain Range, lying about one hundred miles inland, runs generally parallel with the coast and contains much higher peaks than the Coast Range, many of them being the cones of extinct vol-canoes. Mt. Hood (11,225 ft.) is the highest point in the state. The Cascade Mountains divide the state topographically into two sharply contrasted parts. West of the range the country exhibits a great variety of surface structure, and is humid and densely wooded. East of the range it consists of a broken tableland, arid or semiarid, with a general elevation of 5.000 feet. In the northeastern part of this eastern plateau lie the Blue Mountains, which have an average elevation of 6,000 ft. and decline gradually toward the north. South of these mountains lies the northern limit of the Great Basin Region. Many of the mountains within the Basin Region have a general north-south trend, and between them lie almost level valleys.

Drainage. The most important stream is the Columbia River, which forms the northern boundary for 300 m., and receives directly the waters of all the important rivers of the state, except a few of the southwest and a few of the extreme east. About 160 m. from its mouth are the Cascades, where the river cuts through the lava beds of the Cascade Mountains and makes a descent of about 300 ft. through a canyon 6 m. long and nearly 1 m. deep. The

passage of vessels through the river at this point is effected by means of locks. The largest tributary of the Columbia is the Snake River, which, for nearly 200 m. of its course, forms the boundary between Oregon and Idaho. It flows through steep, wild canyons from 2,000 to 5,000 ft. in depth. The principal tributaries of the Columbia east of the Cascade Mountains and lying wholly within the state are the John Day River, the Deschutes River, and the Willamette, the most important stream lying wholly within the state. In the western part of the state a number of short streams flow directly into the Pacific Ocean, the most important of these being the Rogue and the Umpqua Rivers. In southern Oregon, especially in the Great Basin Region, there are numerous lakes, of which the principal ones are Malheur and Harney Lakes, in Harney County. The waters of both these lakes are alkaline. East of Steins Mountains there is a chain of small lakes, and in Lake county are several larger bodies of water. The Upper and Lower Klamath Lakes of Klamath County are noted for their scenic beauty. Near the northwestern boundary of Klamath County is the famous Crater Lake (6,239 ft. above the sea). Though Crater Lake has no visible outlet, its waters are fresh.

Climate. Oregon has great local variations in climate. Along the coast it is humid, mild, and uniform. In the eastern two-thirds of the state, from which the moisture laden winds are ex-

cluded by the coast mountains, the climate is dry and marked by great daily and annual ranges of temperature. The mean annual temperature varies with the elevation and the distance from the sea. It is highest along the western slope of the Coast Range at altitudes below 2,000 ft., and lowest in the elevated regions east of the Cascade Mountains. In the valleys, between the Coast Range and the Cascade Mountains, the range of temperature is much greater than it is along the coast, and the southern portion of Oregon experiences greater extremes of temperature than the northern. At Astoria, near the mouth of the Columbia River, the mean annual temperature is 52° F., but at Silver Lake, in the Great Basin Region, it is only 44° F. With reference to rainfall, Oregon is divided into two distinct sections by the Cascade Mountains. West of the Cascades the annual precipitation ranges from 40 to 100 in., while east of these mountains irrigation is quite generally practised. During the winter the prevailing winds are from the south and bring moisture; during the summer they are from the northwest and are accompanied by cloudless skies and moderate temperatures.

Agriculture. Along the rugged coast line small valleys and elevated benches constitute excellent agricultural land. Between the Coast Ranges and the Cascade Mountains lies the broad interior valley traversed by the Willamette River, where the soils are mostly clay loams, greatly enriched in the river bottom lands by washings from the hills and by deposits of rich, black humus. The Cascade Mountains are too rough for agricultural occupations. The greater part of the agricultural development has thus far taken place in western Oregon. In eastern Oregon, the soils are deep, easily worked, and contain abundant plant food. Of the state's entire land area about one-fifth is in farms. The proportion of land area utilized for agriculture is greatest over the northern third of the state, where the country is less mountainous and the rainfall is heaviest. The leading crops of the state (in the order of their importance as judged by value) are: hay and forage, wheat, oats, hops, potatoes, and barley. Sheep and cattle are raised extensively on ranches in the semiarid regions, large herds of cattle are kept on lands too wet for cultivation in the western counties, and stock-raising and dairying are important factors in the operation of many of the best farms. Fruit growing, especially the cultivation of apples, is an increasingly important industry in the region between the Cascade and Coast Ranges, and east of the Cascade Mountains. The soil and climate of the western valleys are favorable to hop growing, and the state ranks first in the Union in this industry.

Forests. The Federal government has thirteen forest reserves in the state, ten of which have an area of more than 1,000,000 acres each. From the coast to the eastern base of the Cascade Mountains, the state is heavily timbered,

the most important tree being the great Douglas Fir. Timber is also found on the Blue Mountains in the northeast, and on a number of mountains in the central and southeastern parts of the state. East of the Cascades the valleys are usually treeless, save for a few willows and cottonwoods in the vicinity of streams.

Fisheries. Several hatcheries have been established by the state authorities of Oregon and Washington and by the Federal government for propagating the best varieties of fish. The Columbia River is famous for its salmon, and salmon are caught in small quantities in other coast streams. Catfish, shad, sturgeon, flounders, oysters, clams, crabs, and crawfish are among other varieties taken.

Minerals. The state has various mineral resources including gold, silver, copper, coal, granite and other building stones, quicksilver, nickel, cobalt, lead, and gypsum. Garnets and opals are found, also iron ore, platinum, and ging

Manufactures. The large arid area of southeastern Oregon is sparsely settled, lacks manufacturing interests of any importance, and is very deficient in transportation facilities. waters of the numerous mountain streams of the state have been utilized to some extent for the development of power and for irrigation. Oregon is increasing in importance as a manufacturing state, but the growth of its manufacturing interests during the past sixty years has not kept pace with that of its population. The most important industries (arranged in the order of the value of products) are: lumber and timber products, flour-mill and grist-mill products, slaughtering and meat packing, printing and publishing, dairy products, and canning and preserving

Education. School attendance is compulsory for the full school term for children from nine to fifteen years of age. The public school system is administered by the superintendent of public instruction, who exercises a general supervision over the schools, and by the state board of education, which prescribes the general rules and regulations for their management. There is a county educational board in every county having more than sixty school districts. Evening schools are provided in cities of the first class. Laws have been passed for the formation of union high schools. Each school district in the state is required to have a school term of six months or more. In addition to the public schools, the state maintains the University of Oregon, at Eugene; the State Agricultural College, at Corvallis; and the State Normal School, at Monmouth. Among the institutions not receiving state aid are Albany College (Presbyterian), at Albany; Columbia University (Roman Catholic), at Portland; Dallas College (United Evangelical), at Dallas; Pacific University (Congregational), at Forest Grove; Mc-Minnville College (Baptist), at McMinnville; Pacific College (Friends), at Newberg; Philomath

College (United Brethren), at Philomath; and Willamette University (Methodist Episcopal), at Salem.

Government. The state is still governed under its original constitution adopted in 1857, and its subsequent amendments. The right of suffrage belongs to all citizens of the United States (including women) who have been residents of the state for six months, and of the voting precinct for two months previous to election. The same privilege is conferred upon aliens who have declared their intention of becoming citizens at least one year previous to the election. Excluded from the suffrage are idiots. insane persons, convicts, Chinese. EXECUTIVE. The executive functions of the state are vested in a governor who is elected for a term of four years, who must be at least thirty years old, and must have been a resident of the state for three years before his election. He has the right to pardon offences, and veto legislative acts. but his veto may be overridden by a two-thirds vote of the members present in each house of the legislature. The other important administrative officers are the secretary of state (who, as there is no lieutenant-governor, succeeds the governor if he dies or resigns), treasurer, attorney-general, superintendent of public instruction, and labor commissioner. LEGISLATIVE. The legislative assembly consists of a Senate and a House of Representatives. It meets at Salem biennially (odd number years), and sessions are limited to 40 days. JUDICIARY. The judicial department of the state consists of a supreme court, circuit courts, county courts, and the courts of local justices of the peace. The supreme court consists of five judges elected for a term of six years. The state is divided into nine circuits in which the judges are elected for a term of six years. Judges of the county courts are elected for four years; each county is divided into a number of districts or precints, for each of which there is a justice of the peace,

elected biennially and having jurisdiction in minor cases. Local Government. For the purpose of local government the state is divided into counties. The constitution provides that no county may have an area of less than 400 sq. miles. County affairs are administered by the county judge acting with two commissioners. Any portion of a county containing as many as one hundred and fifty inhabitants may be incorporated as a town or city, and as such it possesses complete self-government in all local matters, even having the power to revise its own charter.

History. In 1579, Francis Drake sailed along the Pacific coast of the United States as far as 43° N. latitude. He took possession of the country in the name of Queen Elizabeth, and called it New Albion. Between the date of Drake's voyage and 1774, the coast was visited by a number of Spanish explorers, the most successful of all being Juan Perez. Among others who sailed along the coast was Bruno Heceta, who landed off what is called Point Granville and took formal possession of the country, and later, in latitude 46° 9', discovered a bay whose swift currents indicated that he was in the mouth of a large river or strait. The Spaniards made no effort to colonize North America or to develop trade with the Indians. In 1778 the English Captain James Cook sighted the coast of Oregon in the latitude 44°, and explored it between 47° and 48° in the hope of finding the Straits of Juan de Fuca of Spanish accounts. The mouth of the Columbia River was discovered by the American Captain Gray in 1792. It was partly explored by Lewis and Clark in 1804–'05. A trading post was founded in Astoria in 1811. The territory between latitudes 42° and 54° 40' N. was long in dispute between Great Britain and the United States. The claims were finally settled by treaty in 1846. Oregon Territory was organized in 1848, and it was admitted to statehood in 1859.

PANAMA CANAL ZONE

PANAMA CANAL ZONE, a strip of territory, extending across the narrowest part of the Isthmus of Panama from ocean to ocean, of which the United States of America has a perpetual leasehold. The zone begins at a point three marine miles from mean low water mark in each ocean, and extends for five miles on each side of the center line of the route of the Panama Canal. It contains 436 sq. m., of which 95 sq. m. are under the waters of the Canal and Gatun and Miraflores Lakes. The ownership and jurisdiction of the United States extends to the area covered by Gatun Lake where that body of water penetrates beyond the five-mile limit. Included in the Panama Canal Zone are the

islands of Perico, Naos, Culebra, and Flamenco, and the United States also owns the Pearl Islands which lie some 60 m. southeast of the city of Panama.

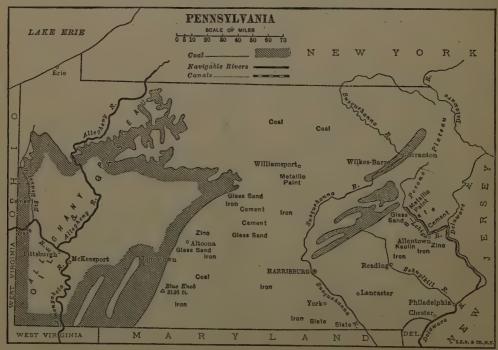
Government. The Panama Canal Zone is administered by a governor appointed by the President of the United States for a term of four years. The order which established the permanent government for the Zone created the following executive departments: Operation and Maintenance, Purchasing Department, Supply Department, Accounting Department, Health Department, and an Executive Secretary. The President appoints all officials; the nomination for the governor is alone by law subject to the advice and consent of the Senate.

PENNSYLVANIA

PENNSYLVANIA, one of the Middle Atlantic States and one of the original thirteen states of the American Union, lies between latitudes 39° 43′ and 42° 15′ N., and longitudes 74° 40′ and 80° 34′ W. It is bounded on the N. by Lake Erie and New York; on the E. by New Jersey; on the S. by Delaware, Maryland, and West Virginia; and on the W. by Ohio. Pennsylvania is called the Keystone State because it was the seventh or central one in order of the thirteen original states. It is nearly rectangular in shape; is about 303 m. long from east to west and 160 m. wide, and has an area of 45,126 sq. m., of which 294 sq. m. represents water surface. In size it ranks thirty-second among the states of the Union.

Relief. Pennsylvania has a remarkably varied surface. It skirts the Atlantic coastal plain in the extreme southeast; is crossed from northeast to southwest by the various ranges of the Appalachian Mountain system with their intervening valleys; and to the west is occupied by the Alleghany plateau, which, in the extreme northwest, falls to the plains bordering Lake Erie. In altitude it ranges from sea level in the southeastern portion, to 2,000–3,000 ft. in the mountain and plateau region, and sinks again to about 600 ft. above sea level along the Lake Erie shore. The state includes a portion of the northwestern extension of the Mississippi.

Basin. The southeast section of the state is the Piedmont Region of Pennsylvania, an undulating plain which rises from the coast level to the foothills of the mountain belt. South Mountain, or Blue Ridge, is the most easterly of the Appalachian ranges. It extends southwestward from New Jersey to the southern boundary line, and beyond through the intervening states to Alabama. In its northeastern extension this range is represented by Schooley Mountain of New Jersey and the Highlands of the Hudson. The Blue Mountain (North or Kittatiny), corresponding to the Shawangunk Mountains of New York, extends from the Delaware Water Gap to the Maryland boundary. A number of depressions or gaps in this ridge are the channels through which pass the waters of the Delaware, Lehigh, Schuylkill, Swatara, and Susquehanna Rivers, and these breaks or gaps afford some of the wildest and most picturesque scenery of the The ridge nowhere attains an elevation of much over 2,200 ft., its best known summits being Mount Minsi (about 1,500 ft.) and Mount Tammany (over 1,450 ft.), the latter in New Jersey, between which flows the Delaware River through the beautiful Delaware Water Gap. In the northeastern part of the state is the Pocono Plateau Region. This, covering Wayne, Pike, and Monroe Counties and part of Carbon County, has a general level of 1,400-1,800 ft.



above the sea. The name Alleghany is frequently used collectively to include all the parallel ranges which lie west of the Blue Ridge. Each ridge, however, has its distinctive local name. These ridges are uniformly low and narrow and separated by narrow valleys. The most westerly ridge, or the main Alleghany, is the highest range in the state, with elevations of 2,000-3,000 feet. Beyond this ridge the surface slopes to the west and the region is known as the Alleghany Plateau, which extends southward from Central New York to northern Alabama, and westward into Ohio and Kentucky. It occupies fully half of Pennsylvania. Its elevation varies considerably, being about 500 ft. where it drops to the Erie plains along the Ohio border; 1,200-1,300 ft. in the southwestern section; and 2,400-2,500 ft. in Tioga and Potter Counties on the northern boundary. In the northern, middle, and southwestern portions of this plateau region the upland is cut by many

narrow valleys and deep ravines.

Drainage. The Delaware and Susquehanna river-systems drain into Delaware and Chesa-peake Bays the waters of fully half the area of Pennsylvania, including the northeastern portion of the Alleghany plateau, the Pocono highland, nearly all of the mountain belt, and the southeast provinces. The extreme southern portion of the mountain belt is drained by tributaries of the Potomac. The greater part of the Alleghany plateau is tributary through the Alleghany and Monongahela Rivers to the Ohio River, and belongs to the Mississippi Basin; but a small northern section is drained by the Genesee River into Lake Ontario. The plain about Lake Erie is drained by short streams into that lake. The lower portion of the Delaware is navigable as far as Philadelphia. The Susquehanna is wide and shallow, with numerous islands. The Alleghany and Monongahela, which unite at Pittsburgh and form the Ohio, are of great importance in the industrial and commercial life of western Pennsylvania. There are few lakes or ponds in the state except those small bodies of water found in the picturesque region of the Pocono Plateau.

Climate. Pennsylvania has the climate of the middle temperate regions and exhibits no marked extremes of heat or cold. The mean temperature of January at Philadelphia is 32° F., and that of July 76°, with occasional extremes in summer of 100° and more, and in winter of -6° F. In the mountain and plateau regions the winter temperatures are much more severe, and -20° is not unusual. The crests of the higher ridges are delightfully cool in summer, but the intervening valleys are subject to extreme heat in summer and severe cold in winter. The average rainfall is 44 in., and is fairly even in its distribution over the state. The prevailing winds are from the west, but they are frequently interrupted by warm, moist breezes from the south and east.

Agriculture. Nearly 65 per cent of the land

area of Pennsylvania is in farms, but less than 70 per cent of the farm land is improved. The total value of farm property is greater than ever before, though the acreage devoted to farming is slightly less than in former years. The soils of the state are extremely diverse in origin and physical characteristics, but that of the valleys and plains is generally fertile. In several crops the state has a high rank. Market-gardening. fruit growing, and forestry receive much attention, and the live stock and dairying industries are important. In the production of hay and forage Pennsylvania ranks second only to New York. Wheat, oats, maize, tobacco, rye, buckwheat, barley, and potatoes are the leading crops. Apples, cherries, and pears are the principal orehard fruits; grapes, peaches, plums, and apricots, and the leading berries are also extensively grown. Floriculture is an important industry in the southeastern part of the state. The sale of nursery products is exceeded in only four other states.

Forests. Pennsylvania has extensive lumber interests and furnishes large quantities of white pine, spruce, and hemlock. In the northeastern section there are considerable areas of beech forest. Oaks of several different species, the sugar and other maples, ash, elm, hickory, tuliptree, black and white walnut, and many other

useful trees abound.

Minerals. Pennsylvania is the most important coal producing state in the Union and one of the greatest coal bearing areas in the world. Anthracite coal is worked chiefly in Lackawanna, Carbon, Luzerne, Dauphin, and Schuylkill Counties, and to some extent in Northumberland and Columbia Counties. Semianthracite coal is mined in Sullivan and Wyoming Counties. Bedford, Bradford, Center, Clear-field, Fulton, Lycoming, and Tioga Counties contain fields of semibituminous coal. The great beds of bituminous coal are located in the Alleghany Plateau Region, every county west of the main Alleghany ridge, with the exception of Erie County, yielding more or less of this coal. The Pittsburgh district is especially productive, the coal in Allegheny and Washington Counties being valuable for its gas producing qualities, while Fayette and Westmoreland Counties yield the famous Connellsville coking coal. Pennsylvania section of the Appalachian oilfield extends from the southwest corner of the state through Greene, Washington, Allegheny, Beaver, Butler, Venango, Clarion, Forest, Elk, Warren, McKean, and Tioga counties. The gas region in Pennsylvania embraces most of the Alleghany Plateau section, except a narrow belt along its east and southeast borders. Natural gas is extensively used as fuel and light, and has played an important part in the industrial development of the western part of the state. There are deposits of various kinds of iron ore in the eastern, southeastern, middle, and some of the western counties, and until the close of the 19th century Pennsylvania was one of the

chief iron ore producing states. Much of the ore used for the manufacture of pig iron is brought from the iron mines of Lake Superior to the bituminous coal field of the Pittsburgh district. Pennsylvania has large areas of limestone rock, used extensively for making cement, and building stone of several kinds, as well as valuable slate quarries. Clays, glass-sands, crystalline, graphite, feldspar, and soapstone are among the mineral products of the state. There are medicinal springs at Bedford, Doubling Gap, Ephrata, Yellow Springs, and at several

other points in the state. Manufactures. The state ranks second in the Union in the value of its manufactures, a rank which it has held since 1859. The establishment and growth of manufacturing industries are largely owing to the great and varied natural resources of the state. Of almost equal importance in the growth of manufactures have been the excellent transportation facilities of the state by rail and canal, the fact that the state has a port on the Atlantic seaboard, and a frontage on Lake Erie which makes the ores of the Lake Superior region readily and cheaply accessible. By far the most important industry is the production of iron and steel, in which Pennsylvania has held first rank since the establishment of the Union. The twelve leading manufactures, aside from the iron and steel products, are (in the order of value) leather, woolen goods, railway cars and repairs by steam railway companies, printing and publishing, silk and silk goods, lumber and timber products, petroleum refining, slaughtering and meat packing, coke, tobacco manufactures, hosiery and

knit goods, and malt liquors. Education. The public school system of Pennsylvania of the present time classifies districts by population, each class having uniform laws. There is a state board of education, with limited powers, and the state superintendent of public instruction is in control. The state school fund and its income are managed by the board of education. The state is gradually taking over the thirteen normal schools, which were formerly local or stock company schools. Provision is made for industrial education and for a medical inspection of pupils. School attendance is compulsory between the ages of eight and sixteen years. The state furnishes text books and other supplies free of charge. Schools must be kept open not less than seven and not more than ten months in the year. There are many private and sectarian schools and academies. Among the technical and special schools are Girard College, Drexel Institute and Franklin Institute at Philadelphia; the Carnegie Institute at Pittsburgh; and the United States Indian School at Among the institutions for higher education are the University of Pennsylvania (1749), at Philadelphia; the University of Pittsburg (1819), at Pittsburgh; Dickinson College (Methodist Episcopal, 1783), at Carlisle; Haverford College (Society of Friends, 1833), at Haverford; Franklin and Marshall College (German Reformed, 1853), at Lancaster; Washington and Jefferson (Presbyterian, 1802), at Washington; Lafayette (Presbyterian, 1832), at Easton; Bucknell University (Baptist, 1846), at Lewisburg; Alleghany College (Methodist Episcopal, 1815), at Meadville; Lehigh University (non-sectarian, 1867), at Bethlehem; Bryn Mawr College for women (Society of Friends, 1885), at Bryn Mawr; and many others.

Government. Pennsylvania is governed under the constitution of December, 1873, and its amendments. All male citizens over twentyone years of age, who have been citizens of the United States for one month or longer, residents of the state for one year, and of the election district for two months immediately preceding the election, have the right of suffrage, with the proviso that they must have paid within two years a state or county tax, which shall have been assessed at least two months and paid at least one month before the election. Executive. The executive officers of the state are the governor, the lieutenant-governor, and the secretary of internal affairs, all elected for four years; the auditor-general, elected for three years; the treasurer, elected for two years; and (all ap-pointed by the governor subject to the advice, and consent of two-thirds of the Senate) the secretary of the commonwealth, the attorneygeneral, and a superintendent of public instruction. The executive officers chosen by election are ineligible for a second consecutive term, except the secretary of internal affairs. governor and lieutenant-governor must be at least thirty years of age, citizens of the United States, and inhabitants of the state for seven years immediately preceding election; no member of Congress or person holding any office under the governments of the United States or of Pennsylvania is eligible for either office. The governor controls a large amount of patronage and has wide appointive power, subject to the approval of the Senate. His right of veto, which extends to items in appropriation bills, may be overridden by a two-thirds vote in each house. The power to pardon is subject to recommendation by a state board of pardons. The department of internal affairs consists of six bureaus: the land office, vital statistics, weather service, assessments, industrial statistics, and railroads, canals, telegraphs, and telephones. There are also included in the executive department many statutory administrative officials and boards, such as the adjutant-general, insurance commissioner, board of health, board of public grounds and buildings, board of agriculture, commissioner of fisheries, and inspector of factories and mines. LEGISLATIVE. The legislative body of Pennsylvania, known as the General Assembly, consists of two houses—a Senate and a House of Representatives. The Legislature meets at Harrisburg biennially (odd number years), the session being unlimited as to time. The powers of the two houses are the same, ex-

cept that the Senate exercises the right of confirming appointments and of acting as a court of impeachment, while the House of Representatives initiates all money bills and impeachment cases. Senators must be at least twenty-five years old, citizens, inhabitants of the state at least four years next before election, and inhabitants of the senatorial districts from which they are elected for one year next before election. Representatives must be at least twenty-one years of age, must have lived in the state three years, and in the district from which elected one year next before election. To avoid the undue power of large cities provision is made that no city or county shall be entitled to more than one-sixth of the total number of senators. JUDICIARY. At the head of the state judiciary is the supreme court, consisting of seven judges elected by the state at large. Minority representation is secured by the provision that each elector shall vote for one less than the number of judges to be chosen at each election. The state is divided into three supreme judicial districts, the eastern, the middle, and the western. Besides the supreme court there are the superior court, with appellate jurisdiction; fifty-six district courts of common pleas; courts of oyer and terminer; courts of justices of the peace; and orphans' courts. LOCAL GOVERNMENT. For local administration the state is organized in counties, cities, towns or boroughs, and townships. The county officers are the sheriff, coroner, prothonotary, register of wills, recorder of deeds, commissioners, treasurer, surveyor, auditor or comptroller, clerk of the courts, and district attorney, all elected for three years.

History. The earliest European settlements

(1643-'81) within the present limits of Pennsylvania were made by Swedish and Dutch traders in the lower valley of the Delaware River. In 1664 the English obtained possession of the territory, and in 1681 it was granted by Charles the Second to William Penn, a prominent member of the Society of Friends. In colonial days Quaker influence was very strong, but religious freedom was given to all. The colony had serious boundary disputes with Maryland, Virginia, and New York, and a dispute with Connecticut over the Wyoming Valley, which was settled in favor of Pennsylvania in 1782. A strong anti-proprietary sentiment grew among the people after the death of William Penn, the great leaders of the movement being Joseph Galloway and Benjamin Franklin. The people of the colony were not united in sentiment over the War of Independence. There were not only many loyalists, and many who were opposed to war on religious grounds, but the people generally were satisfied with the liberal and The liberty party, however, became dominant, and Pennsylvania bore a creditable part in the struggle which ended in the establishment of independence. Philadelphia, where the Declaration of Independence was adopted in 1776, became the seat of the Federal Government, except for a brief period in 1789-'90, until the removal to Washington in 1800. The state bore a notable part in the Civil War. Many of the miners and ironworkers are of foreign birth, and serious industrial disturbances have occurred at intervals since 1865. A large proportion of the farmers are of German descent, and still speak the patois known as "Pennsylvania Dutch."

PHILIPPINE ISLANDS

PHILIPPINE ISLANDS, a large insular group forming the northern section of the Malay Archipelago, from which it is separated by the two profound abysses of the Sulu (Jolo) and Celebes Seas, 2,000–4,000 fathoms deep. The group lies between latitudes 4° 40′ and 21° N., and longitudes 117° and 127° E., and comprises a vast aggregate of over 2,000 islands of all sizes, ranging from mere rocks and reefs to Luzon and Mindanao, the former rather more and the latter somewhat less than 40,000 sq. m. in area. The other chief members of the group are Samar (5,031 sq. m.), Negros (4,881 sq. m.), Panay (4,611 sq. m.), Palawan or Paragua (4,027 sq. m.), Mindoro (4,108 sq. m.), Leyte (2,722 sq. m.), Cebu (1,762 sq. m.), Bohol (1,441 sq. m.), and Masbate (1,236 sq. m.). There are twenty other islands, ranging from 100 to 600 sq. m. in area, and nearly 2,000 which contain less than one square mile each.

Relief. The group is washed on the eastern side by the Pacific Ocean, and on the northwestern by the China Sea. It has a total area of 115,028 sq. miles. The archipelago is disposed nearly due north and south, and has very irregu-

lar coastlines aggregating over 12,000 m. in length. The islands are essentially mountainous and volcanic, and are traversed by irregular chains of mountains whose trend is generally north and south. The chief mountain system is that bearing the name of the Caraballos Mountains, in Luzon. It is divided into three branches—the West Caraballo, the Central Caraballo, and the Sierra Madre—the last named with a southerly extension known as the Caraballo del Sur. These mountains have an average elevation of about 3,500 ft., and rise in numerous crests and summits to 5,000 and 7,000 ft., the highest point in Luzon being Mt. Data (7,364 ft.). Southward of Lingayen Gulf and extending to Manilla Bay are the Zambales Mountains, which follow the western coast of the island. East of this range lies the great valley or depression, about 150 m. long and from 50 to 60 m. wide, which is traversed in great part by the Pampanga River. In this fertile tract are located two-fifths of the population of the island. In Mindanao are several ranges, and every island has ridges and chains of greater or lesser magnitude, the loftiest and most prominent mountain



summit of the archipelago being Apo, a volcano

on Mindanao.

brainage. The larger islands are well watered by numerous streams, and many lakes or inland seas dot the surface. In Luzon are Cagayán, the largest stream in the group, Agno Grande, Abra, Pampanga, and others. In Mindanao are the Agusan and Pelunguy, or Mindanao, the second largest of the Philippine Rivers. The other islands have numerous streams, many of which are navigable for some distance.

Climate. The climate presents many gradations from tropical to almost temperate, and it is difficult to make a general statement which will not be subject to innumerable well-grounded As in other tropical countries, objections. altitude plays an important part in the determination of climate, but there are regions at sea level where the trade winds are not arrested by the mountains, and where the climate is pleasant, and uniform as to precipitation. This climate is typical of Mindanao Island and southern Luzon. At Manila, the mean annual temperature is 80° F., one of the lowest recorded temperatures being 60° F., while the highest recorded temperature of the city for twenty-two years was 100.04° F. Those who are accustomed to the Manila climate, claim that it is as endurable during the hot season as is the climate of Chicago or New York during midsummer. As a whole, the marked characteristics of the Philippine climate are a uniformly high temperature, excessive humidity, heavy rainfalls, and violent storms, known as typhoons. The hottest months are April, May, and June. The rainfall is 68 to 70 inches.

Agriculture. Agriculture is the leading industry, though it is still generally in a primitive condition, implements and methods being for the most part inadequate, farm animals scarce, labor insufficient, and capital wanting for the proper development of the soil. Some progress has been made in the way of establishing improved sugar mills. The leading crops are rice, maize, sugar-cane, cotton, coffee, and tobacco.

Forests. The magnificent primeval forests contain dyewoods, hard-grained timbers, and medicinal and other useful plants. They are divided into nine forest districts, each containing a number of forest stations in charge of foresters, rangers, or inspectors. Each forest contains native trees of many species.

Fisheries. The fresh and marine waters of the archipelago abound in fish, turtles, molluscs, and

snonges

Minerals. Of the minerals, the most widely diffused are coal and iron; copper also cocurs, as well as gold, lead, silver, cinnabar, sulphur, petroleum, quicksilver, alum, jasper, marble, and fine building stones. Little has as yet been done towards the development of the mineral resources, excepting gold, which is found in almost all the important islands, and in some of them has long been worked by the natives.

Manufactures. Manufacturing industries are confined mainly to preparing agricultural products for market, and in the production by the natives of wearing apparel, household utensils, furniture, and other requirements to supply their primitive needs. The most important factories are those for the manufacture of cigars

and cigarettes.

Education. The archipelago is divided into thirty-six educational divisions. An efficient system of elementary schools was established by the United States in 1901. It provides a course of instruction in the English language for eleven years—four primary, three intermediate, and four secondary. Courses include instruction in farming, tool work, housekeeping, household arts, and business. A school for training teachers has been at work for some years, industrial trade schools have been established, and great stress is laid on industrial work. For high school education there is the free statesupported University of the Philippines, with colleges of liberal arts, medicine and surgery, engineering, law, veterinary medicine and agriculture, and a school of fine arts. For ecclesiastical instruction, the University of St. Tomas (founded 1611, at Manila) has several faculties,

including one of medicine.

Religion. The dominant religion of the islands is the Roman Catholic, there being, in addition to an American archbishop, five American, one Italian, and two Filipino bishops, and one Spanish apostolic prefect. In Luzon an

Independent Filipino Church has come into existence. The Moros are Mohammedans, and there are pagan tribes in some of the more re-

mote regions.

Government. The whole of the archipelago is under civil government. The central government is composed of the governor-general, who is the chief executive and president of the Philippine Commission, and a board of eight commissioners composed of three Americans and five The legislative body of the archipelago comprises an upper and a lower house; the Philippine Commission constitutes the upper house, while the lower house, or Philippine Assembly, is elected. Members of the assembly hold office for four years, and the legislature elects two resident commissioners to the United States, who hold office for the same term. These commissioners represent the islands in the United States House of Representatives. They have the right to speak but not the right to There are four executive departments— Interior, Finance and Justice, Commerce and Appeals, and Public Instruction. Local GovERNMENT. The islands are divided into thirty-six provinces, each of which has a governor, secretary, treasurer, and prosecuting-attorney. The government of the towns is practically autonomous, the officials being elected by the qualified voters of the municipalities and serving for four years. Judiciary. For the administration of justice there are a supreme court with seven judges; twenty-six judicial districts, each with a court of first instance, three additional judges of the court of first instance of Manila, and seven additional judges of first instance who replace absent judges or those disqualified for any reason in particular cases. The court of land registration has been merged with the courts of first instance.

History. The Phillippines were discovered by Magellan in 1521 and were officially annexed to Spain in 1569, remaining an integral part of the Spanish dominion till 1898. A rebellion in 1896 went on until the Spanish-American War was begun in 1898. As a result of the war, the islands were ceded to the United States on a pay-

ment of \$20,000,000.

PORTO RICO

PORTO RICO (or Puerto Rico), an island Territory of the United States, lying in the Atlantic Ocean seventy-five miles east of Haiti, or Santo Domingo. It is the most easterly and the smallest of the Greater Antilles and is intersected near its center by the parallel of 18° N. and the Meridian of 66° 30′ W. It is about 100 m. long from east to west, from 35 to 40 m. from north to south, and has an area of 3,435 sq. miles. Included in the administration of Porto Rico are the island of Vieques, about 21 m. long and 5 or 6 m. wide, and the nearly barren island of Culebra off the east coast; the island of Mona, valuable for its guano deposits, off the west coast; and a number of islets.

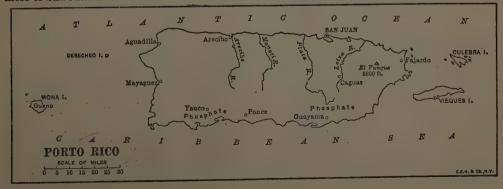
Coast. The coast line has many shallow bays and lagoons which are available for light draft vessels, but there are few indentations of sufficient depth and size to afford good anchorage for large vessels. The principal harbors are

those of San Juan and Ponce.

Relief. Porto Rico is traversed from east to west by a range of mountains varying in height from 2,000 to 3,700 feet. The northern slope of this range is gradual, but it is much broken by rugged spurs and gorges. The southern slope is shorter and much more abrupt. The culminating point, El Yunque, about 3,800 ft. in height, is in the northeastern corner of the island. There is little level country, except on the south side of the island.

Drainage. More than 1,200 streams afford Porto Rico complete and efficient drainage. The main water parting is nearly twice as far from the north coast as it is from the south coast of the island and all the principal rivers are on the north side. Among many others, they include the Rio Loiza, Rio de la Plata, Rio Manati, and Rio Arecibo. None of the rivers is navigable for more than a mile or two from the coast.

Climate. The island lies in the track of the NE. trade winds which, blowing throughout



the greater part of the year, greatly moderate the temperature. The mercury rarely reaches 100° F., or falls below 50° F., and the mean annual temperature is about 80° F. The average annual rainfall on the northeast coast is about 120 inches or more, and at San Juan it is 55 inches, while other districts are semiarid or subject to severe droughts. The island is visited occasionally by hurricanes.

Agriculture. The soil is generally fertile, and a little more than one-fourth of the land is under cultivation. Agriculture forms the principal industry of the people. The three leading crops (in the order of their importance as judged by value) are sugar, tobacco, and coffee. The others are rice, maize, yams and garden vegetables, bananas, plantains, and tropical fruits. Sea-island cotton and other textile fibers are grown. The guano and phosphate deposits are yaluable.

Forests. The more rugged districts and higher elevations are covered with such tropical forest trees as ebony, sandalwood, and mahogany. There are several species of palm, tree-ferns, resinous trees, and many medicinal and other plants.

Minerals. The minerals resources are very limited. Iron ore, lignite, copper, nickel, platinum, and other minerals have been found, but not in sufficient quantity to be of commercial value. There are very productive salt works.

Manufactures. The manufacture of sugar

Manufactures. The manufacture of sugar and molasses, the making of cigars and cigarettes, and the cleaning and polishing of coffee are the most important industries of Porto Rico.

Education. There is a complete and efficient system of common schools, and education has been compulsory since 1899. There is a well distributed system of night schools and kindergartens, and there are also a number of private schools. The University of Porto Rico, in Rio Piedras, is open to both men and women. It comrpises a normal department, a college of liberal arts, a college of agriculture, with provision for departments of natural science and engineering, architecture, law, medicine, pharmacy, and a university hospital. It maintains a farm and a dairy equipped with modern utensils and machinery, and with selected stock. With the co-operation of the United States Agricultural

Experiment Station at Mayaguez, it offers a thorough course in theoretical and practical husbandry.

Inhabitants: The white population of the island is largely of Spanish extraction, but many Americans from the United States are living in Porto Rico and are engaged in business. The colored population is negro and mulatto, the latter being in the majority. Nearly all the people are Roman Catholics.

Government. Under the constitution of 1900, with its amendments, Porto Rico has representative government, the franchise being restricted only as to age (21 years), residence (1 year), and citizenship (either Porto Rican or American). EXECUTIVE. The governor and the executive council are appointed by the President of the United States for terms of four years. The council consists of six heads of departments and five natives, and forms the upper house of the legislative body of the island. LEGISLATIVE. Members of the House of Delegates are elected by the people for a term of two years. Acts of the legislature may be vetoed by the governor. A resident com-missioner to the United States, having a seat in Congress in Washington, is elected by the people for two years. The regulations of the United States Civil Service have been incorporated into the law of the island by the legislative assembly, which meets annually at San Juan, its sessions being limited to sixty days. JUDICIARY. The judiciary comprises an attorney-general and staff, and a United States court, appointed by the President; a supreme court of five members, also appointed by the President; seven district judges, appointed by the governor; thirty-four municipal courts, the judges and officials of which are elected by the people; and fifty-nine justices of the peace, appointed by the governor. LOCAL GOVERNMENT. For purposes of local government, the island is divided into municipalities, in which the mayor, city council, and other officials are elected by the people.

History. Porto Rico was discovered by Columbus in 1493, and Ponce de Leon founded a settlement there in 1510. The island was ceded by Spain to the United States after the war of 1898, and in 1900 civil government was given to the Territory.

RHODE ISLAND

RHODE ISLAND, one of the New England group of states, and one of the original thirteen states of the Union, lies between latitudes 41° 18′ and 42° 3′ N., and longitudes 71° 8′ and 71° 53′ W. It is bounded on the N. and E. by Massachusetts; on the S. by the Atlantic Ocean; and on the W. by Connecticut. Rhode Island is the smallest state in the Union, being a little less than 50 m. in length from north to south, and about 37 m. in width from east to west, and having an area of 1,248 sq. m. of which 181 sq. m. are water surface.

Relief. The surface of Rhode Island is nowhere mountainous, but is generally hilly and stony in the northern section, and slopes gradually towards a level region in the south. The mean elevation for the entire state is only about 200 ft. above sea level, and Durfee Hill (805 ft.) in the northwest is the highest point.

in the northwest is the highest point.

Drainage. The rivers of Rhode Island are short and of no great volume, but they are swift, and furnish water-power which is extensively utilized. Chief among the streams are the Blackstone and the Pawtuxet, both of which flow into

the Providence River. The Blackstone has a fall of 50 ft. at Pawtucket, and the Pawtuxet has a number of falls. The Pawcatuck River is the principal stream of the western half of the state. The most important physiographic feature of Rhode Island is Narragansett Bay, which penetrates the state for about 28 m. and encloses a number of beautiful islands. Large vessels can ascend this bay from the sea to Providence. Providence Bay, or River, is the northern arm of Narragansett Bay; Mount Hope Bay, the estuary of the Taunton River, is an eastern arm; and the Sakonnet River, between Aquidneck, or Rhode Island, and the mainland, is a southern arm. Aquidneck or Rhode Island, which gave the state its name, Conanicut Island, and Prudence Island, are the largest of the Bay islands. Block Island, about 10 m. off the coast, belongs to the state and forms a part of Newport county. West of Point Judith the coast of

Rhode Island is low and sandy.

Climate. Rhode Island has a milder and more equable climate than that of the other New England States. Extremes of either heat or cold are rare. The mean annual temperature is 49°, the summer mean being 68° and that of the winter 29° F. The annual rainfall varies

from 40 to 50 in.

Agriculture. While the number of farms and the average number of acres per farm have decreased since 1850, the average value of all farm property has greatly increased. Owing to the proximity of great manufacturing centers, trucking is replacing general farming wherever the soils are sufficiently retentive of moisture to permit it. The principal crops (in the order of their value) are: cereals, hay and forage, garden vegetables, and fruits and nuts.

Fisheries. In former days Rhode Island was a center of the whale-fishing activity, but before the close of the 19th century the industry was practically extinct. The general fisheries of the present time are, however, important, the chief items of catch being lobsters, squeteaque (weak-

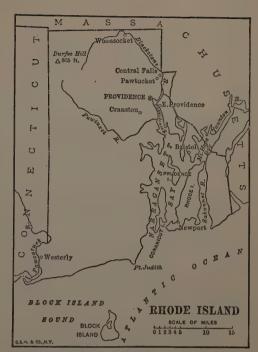
fish), scup, and oysters.

Rhode Island's mineral wealth Minerals. is comparatively small, the most valuable item being granite, which constitutes more than half the value of the total mineral products of the state. Clay products, lime, and talc are the only

other minerals of commercial note.

Manufactures. Rhode Island is preëminently a manufacturing community, and the growth and concentration of population in the state have been closely related to the increase in the importance of its manufacturing industries. There is great diversity in those industries, but the most important are the manufacture of cotton and woolen textiles and goods, jewelry, foundry and machine-shop products, electrical machinery and supplies, silverware and plated

School attendance is compul-Education. sory for children between the ages of seven and fifteen, but the maximum limit is reduced to



thirteen for children who are employed at lawful labor. At the head of the public school system is a commissioner of education, appointed by the governor and Senate, and a state board of educa-tion, composed of the governor and licutenantgovernor ex officio, and six other members elected by the General Assembly. In addition to the public schools are the parochial schools of The Roman Catholic Church. The principal institutions for higher education are: Brown University, the State School of Design, the State Normal School, and the Moses Brown School, all at Providence; and the State College of Agriculture and Mechanic Arts, at Kingston. There are state training schools for teachers at Providence, Cranston, Bristol, Barrington, Central Falls, Warwick, and Pawtucket.

Rhode Island is governed Government. under a constitution adopted in 1842, and amended at various times. Amendments to the constitution must be passed by both houses of the General Assembly at two consecutive sessions, and must then be ratified by three-fifths of the electors of the state voting thereon in town and ward meetings. All native or naturalized citizens of the United States residing in Rhode Island are citizens of the state. In state and national elections all adult male citizens are entitled to the suffrage. LEGISLATIVE. The legislative power of the state is vested in the General Assembly, members of which are elected annually. It meets annually at Providence, sessions being limited to 60 days. It

consists of a Senate made up of the lieutenantgovernor and of one senator from each of the thirty-eight cities and townships in the state; and a House of Representatives of one hundred members, apportioned according to population, but with the proviso that each town or city shall have at least one member and that none shall have more than one-fourth of the total number. EXECUTIVE. The executive officers of the state as well as members of the General Assembly are elected annually in November. They include a governor, a lieutenant-governor, a secretary of state, an attorney-general, an auditor, a treasurer, a commissioner of public schools, a railroad commissioner, a factory inspector, and various boards and commissions. JUDICIARY. At the head of the judicial branch of state government is the supreme court, divided into an appellate division and a common pleas division, with final revisory and appellate jurisdiction upon all questions of law and equity. Below the supreme court are the twelve district courts, the town councils, probate courts, and justices of the peace. The judges of the supreme court and the district judges are elected by the General Assembly, the former to serve during good behavior, the latter for terms of three years. Local Government. For purposes of local

government the state is divided into five counties and thirty-eight towns. The town (or township) is the unit of local government, the county being recognized only for judicial purposes, and to some extent in the appointment by central administrative boards.

History. Rhode Island was founded by religious and political exiles from Massachusetts. Roger Williams planted the first settlement at Providence in 1636. William Coddington and others settled on Aquidneck or Rhode Island in 1638. Newport was founded in 1639. The Royal Charter for Rhode Island and Providence Plantations was issued in 1663. government of Rhode Island permitted complete freedom in religious matters. Rhode Island did not ratify the federal constitution until 1790, it being the last of the original thirteen states to accept it. The first successful cottonmill in the country was established at Pawtucket in 1790. In 1842 occurred the Dorr Rebellion, a revolt against conditions which were the outgrowth of the charter of 1663, which had served in place of a constitution, and which gave undue power to country towns and restricted suffrage. As a result of this revolt a new constitution was adopted. There were two centers of government until 1900.

SAMOAN ISLANDS

SAMOAN ISLANDS (the Tutuila Group), the Island of Tutuila, and all other islands of the Samoan Group lying east of longitude 171° W. belong to the United States. The Island of Tutuila, 70 m. from Apia, has an area of about 77 sq. miles. Manua and the other islets have a united area of about 25 sq. miles.

Relief. The Island of Tutuila is mountainous, luxuriantly wooded, and fertile, and has in Pago Pago the only good harbor in Samoa. It has a United States naval station under a commandant, the government having acquired there a land area of about 40 acres. All the islands are mountainous, with volcanic peaks rising from 2,000 to 4,000 ft. above the sea. The cones are generally quiescent, but volcanic disturbances have occurred in quite recent times. The islands are abundantly watered and the coasts are protected in many places by coral reefs.

Climate. The climate is moist and sometimes extremely hot, though generally pleasing and healthful. A fine dry season extends from April to September; a wet season from October to March. The mean annual temperature is about 78° F., the warmest month being December, and the coldest July. Violent and destructive hurricanes sometimes occur from January to

Products and Industries. The soil is wonderfully fertile, the chief products being copra, taro, yams, breadfruit, cocoanuts, and bananas. The forests are remarkable for the size and

variety of their trees and the luxuriance and beauty of the tree-ferns, creepers, and parasites.

Commerce. The chief articles of export are copra and cocoa-beans. The imports are cereals, clothing, hardware, agricultural tools and implements, drugs and chemicals, and oils.

Inhabitants. The Samoans are pure Polynesians. They are of a light brown color, have regular and handsome features, and fine physique. Under missionary influence they have become Protestants, Catholics, or Mormons, but retain many superstitions connected with their religion. Besides the sectarian schools, there are three non-sectarian schools, one maintained by the island governor, and two mainly supported by the natives. All the non-sectarian schools are supplied by the government with text-books, stationary, etc.

Government. All of the islands belonging to the United States are under a governor, who is also the commandant of the United States Naval Station of Tutuila. He holds his commission from the President and appoints officers and frames laws and ordinances; but native customs, unless inconsistent with the United States laws, are not changed without the consent of the people. The islands are organized in three political districts, in each of which there is a native governor, under whom are native high chiefs in the minor divisions called counties. These, in turn, have control of the village chiefs. Judicial power is vested in village courts, dis-

trict courts, and in a high court. Pago Pago

(Pango Pango) is the seat of government.

History. The islands were visited by Bougainville in 1768, and from him they received the name of fles des Navigateurs. After 1889 Great Britain, Germany and the United States recognized the independence of the Samoan

government, making provision for a supreme court and the regulation of taxation and land-claims. By a further agreement between Great Britain, Germany and the United States (1899–1900), Upolu and Savaii were assigned absolutely to Germany, and the other islands to the United States

SOUTH CAROLINA

SOUTH CAROLINA, a South Atlantic State and one of the thirteen original members of the American Union, lies between latitudes 32° 2′ and 35° 17′ N., and longitudes 78° 30′ and 83° 20′ W. It is bounded on the N. by North Carolina; on the E. by North Carolina and the Atlantic Ocean; on the SE. by the Atlantic Ocean; and on the W. by Georgia, from which it is separated by the Savannah, Tugaloo and Chattooga Rivers. In size, South Carolina ranks thirty-ninth among the states of the Union, its gross area being 30,989 sq. m., of which 494 sq. m. are water surface.

The Coast. The coast-line from Little River Inlet extends in a SW. course to the Savannah River, a distance of about 200 m. The principal indentations are Wingah Bay, Bull Bay, Charleston Harbor, Stono Inlet, Edisto Inlet, St. Helena Sound and Port Royal Sound, but the only first-class harbors are those of Charleston and Port Royal. Much of the coast line is bordered

by a series of flat, low, sea-islands that increase toward the Georgia border.

Relief. South Carolina lies mainly in the Coastal Plain and Piedmont sections of SE. United States, but in the NW. it extends slightly into the Appalachian Mountain Region. It is roughly triangular in outline, with its apex pointing south. Fully three-fifths of the surface of the state is included within the Coastal Plain, which along its eastern border is occupied by a broad strip of the "flatwoods" country. For ten or twelve miles back from the coast, the region is occupied very largely by sand marshes, and beyond these the surface, while continuing flat, rises about two feet per mile for from 40 to 45 m.; farther inland it rises more rapidly, be comes more rolling, and attains elevations of 300–350 ft. along the "fall-line," which marks the boundary between the Coastal Plain and the Piedmont section. The "fall-line" passes in a general SW. direction from the North Carolina



border in Marlboro County, through Columbia, to Augusta on the SW. boundary. The Piedmont Plateau Region rises gradually from the "fall-line" to elevations of 1,000 ft. and more in the NW. Locally it is spoken of as the "upcountry." Its surface is much broken by undulating ridges and deeply cut valleys. In the Appalachian Mountain region, occupying a very small part of the state, a few summits of the Blue Ridge rise abruptly from the foot-hills to peaks attaining from 3,000 to nearly 4,000 ft. in height. The highest point in the state is Rich Mountain (3,569 ft.) on the North Carolina state line. Other summits are Mt. Pinnacle (3,413 ft.), Cæsar's Head (3,218 ft.) and Table Rock (3,157 ft.). The mean elevation

of the entire state is 350 feet. Drainage. The principal rivers rise in the Appalachian Mountains and flow SE. into the Atlantic Ocean. Along the "fall-line" these rivers drop from the higher areas of the Piedmont Plateau to lower levels in the Coastal Plain Region. Through the center of the state flows the Santee River, its basin occupying nearly one-half the area of the state. The Santee is formed by the confluence of the Wateree (the Catawba River in North Carolina) and the Congaree, which in turn is formed by the Broad and Saluda Rivers. In the NE, the Great Pedee and its tributaries are wholly within the Coastal Plain, but beyond the "fall-line" the main stream is known as the Yadkin, which rises in the mountains of North Carolina. On the Georgia border, the Chattooga River, rising in the Blue Ridge, is a tributary to the Tugaloo, and this in turn becomes tributary to the Savannah. The Black River, north of the Santee, and the Combahee and the Edisto Rivers in the SE. are the principal streams rising within the Coastal Plain that flow direct to the ocean. In the Piedmont Plateau Region the rivers are generally swift, and are frequently interrupted by falls or rapids; but in the Coastal Plain Region they become sluggish, and in times of flood large areas of the country are inundated.

Climate. Along the coast the climate is mild and equable, the mean annual temperature being about 66° F. For the whole state the mean annual temperature is about 63°. The mean annual rainfall is nearly 50 in., well distributed throughout the state. Snow is rare in the southeastern part of the state and soon disappears, but in the central and northwestern sections it occasionally covers the ground to a depth of several inches. The prevailing winds along the coast are from the SW., from the NE. in the north-central section, and from the W. in the west section. The mountain region has a delightful summer climate and is much visited by tourists.

Agriculture. Of the state's entire land area, over two-thirds (69.2 per cent) is in farms. As in other South Atlantic states, the total reported farm acreage, has decreased slightly, but the number of farms has increased since 1860. The

state long outranked all other states in the growing of rice, but this industry has declined, and South Carolina is now surpassed by two or three other states. The general character of South Carolina agriculture is indicated by the fact that about two-thirds of the total value of crops is contributed by cotton, and more than one-sixth by cereals, the remainder consists mostly of potatoes and other vegetables, forest products, and hay and forage. The leading crops (in the order of their importance as judged by value) are: cotton, corn, cottonseed, oats, hay and forage, sweet potatoes and yams, and tobacco.

Forests. The principal lumber product of South Carolina is yellow pine, and there is also a small quantity of cypress. Some use is made of the forest resources of the state in the manufacture of veneer, paper-pulp, turpentine and other chemicals.

Fisheries. The state has active fisheries, mainly oyster, whiting, shad, and sea-bass.

Minerals. The most valuable mineral of South Carolina is phosphate rock, which is found chiefly in Berkeley, Dorchester, Charleston, Colleton and Beaufort Counties. Mineral waters are exported to some extent; other minerals are: granite, clay products, gold (in very small quantities), silver, manganese, iron ore, lime, and monazite (in small quantities).

Manufactures. Although South Carolina is preëminently an agricultural community, at each census from 1869-70 to 1909 the manufactures of the state have represented an increased proportion of the total value of products of the manufacturing industries of the United States. During the period from 1850-1910 the population of the state increased 126.7 per cent, while the value of the manufactured products, exclusive of the value of the products of the neighborhood and hand industries, increased fifteen fold. The most important industries (arranged in the order of value of products) are: cotton goods, lumber and timber products, cotton-seed oil and cake, fertilizers, and printing and publishing.

cake, fertilizers, and printing and publishing.

Education. The present free school system was established in 1868. School attendance is not compulsory, but there are restrictions on the employment of illiterate children in factories and mines. There are separate schools for white and colored children. The educational system is under the supervision of a state superintendent of education, with the assistance of a board composed of the governor, and seven other per-sons appointed by the governor. The state supports, wholly or in part, the University of South Carolina, at Columbia; the South Carolina Military Academy, at Charleston; Clemson Agricultural College, at Clemson; Winthrop Normal and Industrial College for Girls, at Rock Hill; and the Colored Normal, Agricultural. Industrial and Mechanical College, at Orangeburg. Among the other higher institutions of learning are the College of Charleston (nonsectarian), at Charleston; Newberry College (Lutheran), at Newberry; the Presbyterian College of South Carolina, at Clinton; Erskine College (Associate Reformed Presbyterian), at Due West; Furman University (Baptist), at Greenville; Wofford College (Methodist Episcopal, South), at Spartanburg. Other colleges, for women, are Converse College (non-sectarian), at Spartanburg; the College for Women (Presbyterian), at Columbia, Columbia College (non-sectarian), near Columbia; Greenville Female College (Baptist), at Greenville; Lander Female College (Methodist Episcopal), at Greenwood; and the Due West Female College (Presbyterian), at Due West. For negroes, Claffin University (Methodist Episcopal) at Orangeburg; Allen University (African Methodist Episcopal), at Columbia; and several normal and industrial schools. There are theological seminaries at Columbia, at Due West (Associate Reformed Presbyterian), and at Mt. Pleasant (Lutheran).

Presbyterian), and at Mt. Pleasant (Lutheran).

Government. South Carolina is governed under a constitution adopted in 1895. who apply for registration to vote must be able to read and write any section of the constitution submitted to them by the registration officer, or must show that they have paid all taxes for the previous year on property worth \$300 or more. Other requirements for registration are: residence in the state for two years (for ministers in charge of organized churches and teachers of public schools a residence in the state of six months only is required), in the county for one year, and in the polling precinct for four months, and the payment six months before election time of a poll-tax. Idiots, insane persons, pau-pers, convicts, and persons convicted of certain crimes (not pardoned by the governor) are disqualified for registration to vote. EXECUTIVE. The governor holds office for two years, and is eligible for re-election. The governor and lieutenant-governor must be at least thirty years of age, and must have been citizens of the United States and citizens and residents of the state for five years. The lieutenant-governor acts as president of the Senate and succeeds the governor if the governor is removed from office by death, resignation, or otherwise. Other administrative officers of the state are: a secretary of state, a comptroller-general, an attorney-general, a treasurer, an adjutant and inspector-general, and a superintendent of education, each elected for The governor's veto power extends to the separate items in appropriation bills; it may be overcome by a two-thirds majority in each house of the General Assembly. LEGISLATIVE. The legislature, officially styled the General Assembly, is composed of a Senate and a House of Representatives. The Senate is composed of one member from each county,

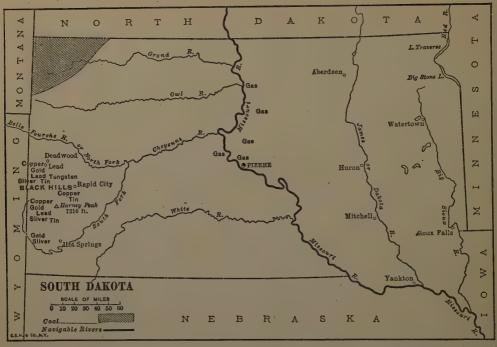
elected for a term of four years; one-half of the senators retire every two years. Members of the House of Representatives are elected for two years, and are apportioned among the counties according to population. The General Assembly meets annually at Columbia on the second Tuesday in January. The length of session is unrestricted by law. Judiciary. The judicial power of the state is vested in a supreme court and two circuit courts, a court of common pleas having civil jurisdiction, and a court of general sessions having criminal jurisdiction. The supreme court consists of a chief justice and four associate justices, who hold office for ten years; a majority of the justices must agree on a decision, and there must always be an odd number of justices on the bench. each of the eight circuits is a circuit judge, elected for four years. The magistrates or justices of the peace are appointed by the governor. LOCAL GOVERNMENT. The unit of local government in South Carolina is the county, which the state constitution provides "shall be a body politic and corporate." The clerk of the circuit court in each county is elected by the people of the county for a term of four years. The voters of each county also elect a sheriff and a coroner, each for a term of four years. Counties are divided into townships, each of which likewise constitutes a body politic and corporate, but there are no separate township governments, the existing divisions of counties into townships being for the purpose of convenience in adjusting taxes.

History. An unsuccessful attempt was made by the French to colonize what is now South Carolina, in 1652. The first permanent English settlement was made in 1670. Charleston was founded in 1680. The territory remained under a proprietary government with North Carolina until 1729, when it became a separate colony. Many of the early colonists were French Huguenots, Scotch, Irish, Swiss, and Germans. South Carolina was the scene of many battles during the Revolution, those of Ft. Moultrie, Charles-ton, Camden, King's Mountain, Cowpens, and Eutaw Springs, being among the most notable. It was held by the British 1780-1781. Its advocacy of nullification nearly led to civil war in 1832-33. It was foremost among the southern states in the advocacy of the states' rights doctrine, and was the first state to secede (Dec. 20, 1860). It opened the Civil War by the bombardment of Fort Sumter (April 12, 1861), suffered severely by the blockade attacks at Charleston Harbor, and near the close of the war (in 1865) by the march of Sherman's army. It was readmitted to the Union in 1868. The state was visited by a severe earthquake in 1886.

SOUTH DAKOTA

SOUTH DAKOTA, a West North-Central State of the United States, lies mainly between latitudes 42° 50′ and 45° 56′ N., and longitudes

96° 26′ and 104° 3′ W. It is bounded on the N. by North Dakota, on the E. by Minnesota and Iowa, on the S. by Nebraska, and on the W. by



Wyoming and Montana. South Dakota has an extreme length from east to west of 380 m., and an extreme width from north to south of 240 miles. In gross area it ranks fourteenth among the states of the Union (77,615 sq. m., of which 477 sq. m. represent water surface).

Relief. South Dakota lies in both the Prairie Plains and the Great Plains Provinces of the With the exception of the United States. Black Hills district in the southwest, the surface is in the main a plateau, having a mean elevation of 2,250 ft., the lowest point being Big Stone Lake on the northeastern boundary (970 ft.); the highest, Harney Peak in the Black Hills (7,216 ft.). The surface is divided into two very nearly equal sections by the Missouri River, which, entering the state from North Dakota, after crossing it in a southeasterly direction, forms a part of the southern boundary. East of the Missouri the surface presents few striking topographic features, but has a generally undulating appearance. In the extreme northeast the Coteau des Prairies (about 2,000 ft.), a range of low hills extending in a south-southeast direction through Marshall, Roberts, Grant, and Deuel Counties, forms the divide between the Minnesota River on the east, and the James River on the west. Numerous small lakes are scattered over the eastern and northeastern parts of the state. West of the James River an elevated region, known as the Coteau du Missouri, forms the waterparting between the James and the Missouri Rivers (1,800 ft.). West of the Missouri River the surface is much worn by stream erosion and broken by many clusters of hills, such as the Fox Ridge in the central part of the state and the Cave Hills in the northwest. In the southwest, in the region between the White River and the South Fork of the Cheyenne River, are the Bad Lands, or Terres Mauvaises, occupying an area about 120 m. long and from 30 to 50 m. wide. Here erosion has carved the surface into an infinite variety of forms—labyrinths, ravines and ridges, and pinnacles and columns. Northwest of the Bad Lands of the White River lie the Black Hills, an irregular dome shaped uplift, occupying an area of 3,000 sq. m. or more within this state, and extending into Wyoming. The district has a general elevation of 4,000-5,000 ft. above the sea, some ridges and peaks rising higher Among the central ridges are the rough crags of Harney, Custer, and Dodge peaks, the highest points in the state. A third of the total area is covered with forests of pine and other trees, which are now included in a forest reserve of the national government. The scenery of this region is remarkably varied and wild. There are several interesting limestone caverns, and Sylvan Lake in the high mountain district is a noted resort.

Drainage. A small area in the northeast is drained to the Red River system; aside from that, the drainage is wholly to the Missouri system. The Missouri enters the state near the center of the northern boundary, pursues a

winding southeasterly course, and from its intersection of the 43rd parallel of N. latitude to its junction with the Big Sioux River, separates South Dakota from Nebraska. Its most important tributaries are the Big Sioux, the James (or Dakota), the White, the Cheyenne, the Owl, and the Grand Rivers. The Big Sioux River rises in the northeast and flows almost directly south for a distance of 300 m., in the lower part of its course forming the boundary between South Dakota and Iowa. West of this stream and almost parallel with it is the James River, which rises in North Dakota and flows southward until it joins the Missouri River near Yankton. Of the western tributaries the Chevenne is the most important, being formed by two branches, the Belle Fourche and the South Fork, which, after almost completely encircling the Black Hills, unite at a point nearly 350 m. from their sources. The country east of the Missouri River is dotted over with numerous ponds and lakes, some of the latter

from 10 to 15 m. in diameter.

Climate. The climate of South Dakota is marked by great annual variations of temperature and a very small amount of rainfall. It is coldest in the northeast, and warmest in the region south of the Cheyenne and west of the Missouri Rivers. The winters are long and marked by exceedingly low temperatures, but owing to the dryness of the atmosphere the extremes are not so severely felt as they would be in a more humid region. The mean winter temperature ranges from 13° at Aberdeen to 25° F. at Rapid City in the Black Hills district. The range of temperature varies from about -40° in the coldest month to 110° F. or more in the summer. The warm Chinook winds have a moderating effect upon the general winter temperature. The tainfall is usually sufficient for the development of the crops, but a system of artificial irrigation is necessary in some parts. The average annual amount of rainfall for the state is about 20 in., ranging from 14 in. at Ashcroft to 26 in. at Aberdeen. The snows are generally light, and cattle may graze on the prairies during most of the winter, but there are occasionally severe blizzards, which are accompanied by intense cold and high winds.

Agriculture. East of the Missouri River the soil is often locally enriched by vegetable mold, and is well adapted for wheat growing; west of the Missouri River the soil 19 a mixture of sand and clay, with deposits of alluvium in the vicinity of streams. The larger valleys of the Black Hills district contain fertile alluvial deposits, but in the plains adjoining these mountains the soils are suitable only for pasture lands. There are occasional tracts throughout the state in which, owing to deficient drainage, an excess of alkali has accumulated, and these areas require special treatment before they can be made productive. The total area included in irrigation projects, completed or under way, is 201,685 acres. Agriculture is the leading industry in

South Dakota, 52.9 per cent of the total area being included in farms. The leading crops of the state (in the order of importance as judged by value) are: wheat, corn, oats, hay and forage, barley, flaxseed, emmer and spelt, and potatoes. About one-third of the wheat produced is of the durum or macaroni variety. Among the hay and forage crops "wild, salt, or prairie grasses" represent over five-sixths of the total acreage and two-thirds of the total value. The greater part of the grain in South Dakota is grown to the east of the Missouri River. Corn is reported from every county except two; almost half the acreage is reported from twelve counties forming a group in the southeast corner of the state. The state is especially well adapted for grazing, and the number of cattle, horses, sheep, and swine is constantly increasing. Fruit and vegetables, particularly potatoes, dairy and creamery products, eggs and poultry, are important.

Forests. With the exception of scattered fringes of timber in the water courses and in the planted groves along the eastern part of the state,

the only forest area is in the Black Hills.

Minerals. The minerals of South Dakota are found chiefly in the Black Hills Region. South Dakota ranks as one of the leading states of the Union in the output of gold. Next in importance is silver, but the other minerals met with, including gypsum, mica, petroleum, natural gas, granite, marble, and tin, are of small commercial value.

grist-milling.

Manufactures. The agricultural and min-ing industries of South Dakota are of much more importance than are its manufactures. The increase, however, in the number of manufacturing establishments, as well as the average number of wage earners engaged in manufactures, keeps pace with the general increase in population. The chief manufacturing industries of the state are the making of butter, cheese, and condensed milk, and flour-and

Education. Elementary and secondary education are free to all from six to twenty-one years of age. School attendance is compulsory for all between the ages of eight and fourteen years, for at least sixteen weeks in the year, twelve of which must be consecutive. At the head of the public school system is a superintendent of public instruction, elected for a term of two years. In each county there is a county superintendent, and in each school district a board of directors. The educational institutions of the state are all under the management of a board of regents of five members, who are appointed by the governor with the approval of the Senate for terms of six years. The leading state institutions are the State University, at Vermilion; the Agricultural College and the Agricultural Experiment Station, at Brookings; the State School of Mines, at Rapid City; and nor. mal schools at Spearfish, Madison, Aberdeen,

and Springfield. Denominational schools for

higher learning are Yankton College and Redfield College (Congregational), Huron College (Presbyterian), and Dakota-Wesleyan University (Methodist Episcopal), at Mitchell. The Norwegian Lutherans have a normal school at Sioux Falls, and there are Roman Catholic schools at Sioux Falls, Deadwood, and Aberdeen.

Government. The state is governed under its original constitution of 1889, and its subsequent amendments. Suffrage is granted to all male citizens of the United States, or aliens who have declared their intention to become citizens, and to Indians who have severed tribal relations; but residence in the United States for one year, in the state for six months, in the county for thirty days, and in the election precinct for ten days are required. Excluded from suffrage are persons under guardianship, insane persons, or those convicted of treason or felony (unless pardoned), and United States soldiers, seamen, and marines. EXECUTIVE. The chief executive officers of the state are the governor, lieutenant-governor, secretary of state, treasurer, auditor, superintendent of public instruc-tion; attorney-general, and commissioner of schools and public lands, all elected biennially by direct popular vote. The governor and lieutenant-governor must be citizens of the United States, qualified electors of the state, at least thirty years old, and residents of the state for two years preceding the election. The governor may remit fines and forfeitures, and grant reprieves, commutations, and pardons; he has a veto power extending to items in appropriation bills, but his veto may be overridden by a two-thirds vote in each house. The lieutenantgovernor presides over the Senate. LEGISLATIVE. The legislature consists of a Senate and House of Representatives, members of which are elected biennially. Senators and representatives must be qualified electors, citizens of the United

States, at least twenty-five years of age, and residents of the state for two years next preceding the election. The legislature meets at Pierre, sessions of the legislature are biennial (odd number years), and are limited to sixty days. Judiciary. The judicial department consists of the supreme court, circuit courts, county courts, justices of the peace, and police magistrates. The supreme court consists of five judges chosen for six years. The state is divided into twelve circuits, and one judge is elected by the voters of each circuit for a period of four years. In each county there is a county court, with a county judge who is elected by popular vote for two years. Local Government. For the administration of local government the state is divided into counties, and these in turn are subdivided into townships and municipal cor-The chief county authority is a board of commissioners elected on a general ticket; the township authority, a board of supervisors or trustees. The county officers are a judge, clerk of the court, sheriff, auditor, registrar of deeds, treasurer, states-attorney, surveyor, coroner, and superintendent of schools all elected biennially.

all elected biennially.

History. The territory included within the present limits of the state was a part of the District of Louisiana from 1803–'05; of the Territory of Louisiana from 1805–'12; and of the Territory of Missouri from 1812-'20. The section east of the Missouri was successively a part of the Territories of Louisiana, Wisconsin, Iowa, and Minnesota; and the western section a part of the Territory of Nebraska. In 1861 the Territory of Dakota was created, including the present Dakotas and portions of Wyoming and Montana. The Dakotas acquired their present territorial limits in 1882. The territory was divided into two states in November, 1887, and both were admitted to the Union on November 2, 1889.

TENNESSEE

TENNESSEE, one of the East South-Central States of the Union, lies between latitudes 35° and 36° 39′ N. and longitudes 81° 37′ and 90° 28′ W. It is bounded on the N. by Kentucky and Virginia; on the E. by North Carolina, on the S. by Georgia, Alabama, and Mississippi; and on the W. by Arkansas and Missouri. The state has an extreme length from E. to W. of about 400 m., and from N. to S. of 109 m., and ranks in area thirty-fourth among the states of the Union (42,022 sq. m., of which 335 sq. m. are water surface).

Relief. The state falls naturally into three main divisions—East, Middle, and West Tennessee. East Tennessee comprises a mountain belt, a valley region, and a plateau region. The mountain belt is composed of the ranges of the Great Smoky (or Unaka Mountains) which form the eastern boundary line of the state. These mountains contain a number of high

peaks, among them being Mount Guyot (6,636 ft.), Clingman Dome (6,619 ft.), Mount Le Conte (6,612 ft.), and about a dozen other peaks over 6,000 ft. in height. West of the boundary ranges lies a section of the Great Appalachian Valley, known here as the Valley of East Tennessee. This valley extends from northeast to southwest through the entire state, the valley belt being approximately 100 m. in width. It is occupied by numerous parallel ridges with intervening valleys, and its areas vary in height from 1,000 ft. in the northeast to 600 ft. in its southwestern portion. In the northeastern part of the valley the highest ridges are the White Oak Ridge and Taylor's Mountain, but the best known ridges, because of their association with battles of the Civil War, are the Missionary and Chickamauga ridges. The western border of the valley region is the steep Cumberland Escarpment which rises to the plateau region.

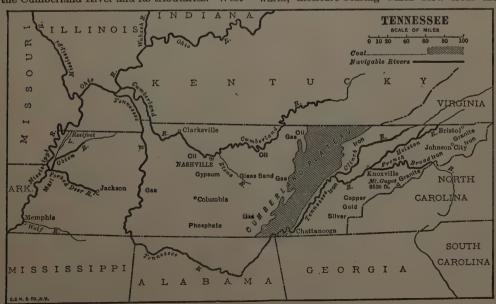
The plateau region comprises the Cumberland Plateau and the Highland Rim Plateau, the latter named from the Highland Rim Escaroment, which forms its western boundary. The Cumberland Plateau is occupied by the various ridges of the Cumberland Mountains; its surface is only slightly rolling, slopes gradually to the northwest, and its western border drops suddenly downward about 1,000 ft. to the Highland Rim Plateau. The latter is generally level except where it is cut by river valleys. West of the Highland Rim Escarpment is the Nashville Basin, eliptical in form, extending nearly across the state from northeast to southwest, with an extreme width of 60 m.: near its center is the city of Murfreesboro. West Tennessee lies west of the Tennessee River and east of the Mississippi River. Westward from the lower Tennessee River the surface of the East Gulf Coastal Plain rises rapidly to the summit of a ridge, and then descends gradually and terminates in a bluff from 150-200 ft. in height which overlooks the Mississippi flood plain. This section of Tennessee has a mean altitude of less than 350 ft. above sea level, and is bordered by alluvial bottom lands along the Mississippi River.

Drainage. The whole of the Appalachian

Province of Tennessee, the southern portion of the Cumberland and Highland Rim Plateau Province, and the Nashville Basin are drained southward and westward by the Tennessee River and its tributaries. The valley of the lower Tennessee is drained northward by the same river. The northern portion of the Cumberland and Highland Rim Plateaus and the Nashville Basin are drained northward and westward by the Cumberland River and its tributaries. West

Tennessee is almost wholly drained into the Mississippi by a number of small streams. The Tennessee crosses the state twice; its principal tributaries are the Clinch, Holston, Hiwassee, Sequatchie, Elk, and Duck. The chief tributaries of the Cumberland are the Harpeth. Stone, and Obie's Rivers. The tributaries of the Mississippi, in Tennessee, direct or indirect. are the Big Hatchie, Wolf, Forked Deer, Obion, and Reelfoot. The Mississippi, Tennessee, and Cumberland Rivers, and some of their tributaries, afford extensive inland, waterways and commercial facilities. The smaller streams of the state are valuable for their water-power and. though in the mountainous parts there are very rapid falls, their fluctuations in volume render them unreliable for practical purposes. Reelfoot Lake, the only large lake in the state (in the northwestern part), occupies a depression formed during an earthquake in 1811. It is 18 miles long by about 3 miles wide.

Climate. Tennessee, lying throughout the greater part of its extent at a considerable elevation above sea level, has a delightful climate. The mean summer temperature ranges from 62° F. on the mountain boundary of the east to 72° in the Plateau region, and to about 78° on the East Gulf Plains; but the mean winter temperature for each of these divisions varies little from 38°; and the mean annual temperature ranges only from 57° in east Tennessee to 60° in west Tennessee. The average annual precipitation varies from 44 to 52 inches. The average annual snowfall is about 8 in., and the snow is usually light and melts within a few days. Both westerly and easterly winds are frequent, but warm, moisture-bearing winds blow from the



south or southwest across the state in a direction nearly parallel with the trend of the mountains.

Violent storms are rare.

Agriculture. Parts of the mountain belt and of the plateau region are not adapted to agriculture, but they afford excellent and extensive pasturage. The valley lands of East Tennessee are highly productive; Middle Tennessee is mostly very productive, though a few of its counties have a rugged soil with clay subsoil; West Tennessee is extremely fertile, with a deep, black, mellow soil. Of the state's entire land area, approximately 75.1 per cent is in farms. The total farm acreage of the state is decreasing slightly, but there is a gain in the acreage of improved farm land, and also in the number of farms. The general character of Tennessee agriculture is indicated by the fact that somewhat less than one-half (45.8 per cent) of the total value of crops is contributed by cereals, about one-sixth (17.1 per cent) by cotton, and about one-tenth (10.5 per cent) by hay and forage. The remainder (representing in value 26.6 per cent of the total) consists mostly of potatoes and other vegetables, forest products, tobacco, and fruits and nuts. The leading crops (in the order of their importance as judged by value) are: corn, cotton, hay and forage, vegetables (other than sweet potatoes and yams), wheat, tobacco, cottonseed, potatoes (including sweet potatoes and yams), and oats. Considerable areas in the central part of the state are admirably adapted for grazing, and the raising of fine horses and cattle is of great importance.

Forests. Originally the state was well covered with forests, and about one-half of it is still woodland containing a large variety of trees. The trees of the mountain ridges are chiefly pines, firs, spruce, and hemlock. In the swamps of the western part of the state the cypress is In many parts of the state are mixed forests of white oak, red oak, ash, gum,

maple, hickory, and chestnut.

Minerals. The minerals of greatest commercial importance are: coal, iron ores, copper ores, marble, and phosphate rock. About oneeighth of the area of the state is underlaid by the coal beds, which occupy a belt in the Cumberland Plateau from 50-75 m. wide, extending entirely across the eastern part of the state. The coal is all of a bituminous variety, and generally of excellent quality. Iron ore has been mined in many places in the state, and the output is constantly increasing. Copper is found chiefly in the southeastern corner of the state; phosphate of high quality is found in the south-central part of the state. Inexhaustible deposits of very beautiful marble are found in eastern Tennessee. Tennessee produces a small amount of gold and silver, each coming as a by-product from the copper refineries. Among the other minerals found and mined to a limited extent are: zinc, lead, manganese, barytes, Auorspar, slate, granite, and petroleum.

Manufactures. Tennessee is preëminently an agriculture and mining state, and its manufactures are based largely upon its rich natural resources. The development of manufacturing in the state has about kept pace with that in the United States as a whole. The most important industries (arranged in the order of the value of products) are: lumber and timber products, flour-mill and grist-mill products, foundry and machine-shop products, printing and publishing, cars and general shop construction and repairs by steam railroad companies, cottonseedoil and cake, cotton goods, and iron and steel

products. Education. School attendance is compulsory throughout the state, and the employment of children under fourteen years of age in factories, workshops, and mines is illegal. There are separate schools for white and for colored children. The school system is under the general supervision of a state superintendent and a state board of education. For the administration of the common school system each county is divided into school districts and the management and control of the common schools are entrusted to county boards of education together with district advisory boards. At the head of the state educational system is the University of Tennessee, which embraces a college of liberal arts, a graduate department, a college of en-gineering, a college of agriculture, a school of pharmacy, an industrial, department, a law department at Knoxville, and medical and dental departments at Nashville. higher education of teachers are four normal schools, at Johnson City, Memphis, and Mur-freesboro (for whites); and one at Nashville for negroes. Other institutions of higher learning, not under the control of the state, are: the University of Nashville (non-sectarian); Washington and Tusculum College (non-sectarian), at Greenville; Cumberland University (Presbyterian), at Lebanon; Carson and Newman College (Baptist), at Jefferson; Fisk University (Congregationalist), at Nashville; University of Chattanooga (Methodist), at Chattanooga; University of the South (Protestant Episcopal). at Sewanee; Christian Brothers College (Roman Catholic), at Memphis; and Lincoln Memorial University (non-sectarian), at Cumberland Gap.

Government. Tennessee is governed under the constitution adopted in 1870. The right of suffrage is given to every male citizen of the United States, twenty-one years of age and over, who has been a resident of the state for one year, provided he has paid his poll-tax and has not been convicted of bribery, larceny, or other infamous crime. The election of the governor, members of the General Assembly, and congressmen is held biennially in even number years. on the first Tuesday after the first Monday in November; but the election of judicial and county officers is held on the first Thursday in August. Executive. The governor is elected by the people for a term of two years, and is

not eligible for more than three consecutive terms. He must be at least thirty years of age and must have been a citizen of the state for the last seven years before election. The governor has extensive pardoning power, but it does not extend to cases of impeachment. Among the more important officers appointed by him are: the superintendent of public instruction; the commissioner of agriculture, statistics, and mines; an assayer; a state entomologist; and officers of the penitentiary. The governor's veto may be overcome by the vote of a bare majority of the members of each house of the General Assembly. There is no lieutenantgovernor. In case of a vacancy in the office of governor, the speaker of the Senate becomes acting governor. Other executive officers are the secretary of state, comptroller, and treasurer, each elected by the General Assembly for two years; and the attorney-general, who is appointed by the judges of the Supreme Court for a term of eight years. LEGISLATIVE. The legislative body or General Assembly is composed of a Senate and House of Representatives, members of which are elected for a term of two years, by counties or by districts having approximately the same population. The qualifications prescribed for senators and representatives are that they shall have been citizens of the state for three years, and residents of the county or district they are to represent for one year immediately preceding election, and that senators shall be at least thirty years of age. The legislature meets at Nashville, biennially, in odd number years, on the first Monday in January, and the session is limited to seventy-five days.

JUDICIARY. The administration of justice is vested in a supreme court, a court of civil appeals, chancery courts, circuit courts, county courts, justice of the peace courts, and, in certain cities and towns, a recorder's court. Local Government. The government of each county is vested mainly in the county court, which acts for the county as a corporation and attends to all county business. The chief county officers are: the county judge, prosecuting attorney, sheriff, coroner, clerk of court, registrar of deeds, assessor (in some counties), treasurer, surveyor, superintendent of schools, superintendent of the poor, and health officer.

History. Tennessee was included in the English grant to Sir Walter Raleigh in 1584, and in the later Stuart grants, including that of North Carolina, in 1663. The region was claimed in early times by North Carolina, and by the French and Spanish. The leading settlement was made from Virginia and North Carolina in 1769. North Carolina ceded its claims to the United States, and the territory was formed in 1790. It was admitted to the Union as a state in 1796. It seceded June 8, 1861, and next to Virginia was the chief battleground during the Civil War. Among the stirring events of that period were the capture of Fort Henry and Fort Donelson and of Island No. 10: the battles of Shiloh, Memphis, Murfreesboro, and Chickamauga; the relief of Chattanooga and Knoxville; and the battles of Franklin and Nashville. The state was readmitted to the Union in 1866, and since 1880 has grown rapidly in wealth, population, and industrial develop-

TEXAS

TEXAS, a West South-Central State of the United States of America, lies between latitudes 25° 51′ and 36° 30′ N., and longitudes 94° 30′ and 106° 30′ W. It is bounded on the N. by New Mexico, Oklahoma, and Arkansas, on the E. by Oklahoma, Arkansas, and Louisiana; on the SE. by the Gulf of Mexico; on the SW. by Mexico; and on the W. by New Mexico. Texas is the largest state in the Union, having a gross area of 265,896 sq. m., of which 3,498 sq. m. are water surface.

Coast. The coast-line of Texas stretches along the Gulf of Mexico for a distance of 400 m., from Sabine Pass in the north to the mouth of the Rio Grande River in the south. Four-fifths of the main coast-line is bordered by a series of long, narrow, sandy islands and peninsulas, back of which lie quiet lagoons, and, at the mouths of the rivers, shallow bays indenting the mainland. Bolivar Peninsula and Galveston Island lie between Galveston Bay and the Gulf. Matagorda Peninsula forms the outer defense of Matagorda Peninsula forms the outer defense of Matagorda Pay, and Matagorda Island of San Antonio Bay. Back of St. Joseph and Mustang Islands, respectively, lie Aransas and Corpus Christi

Bays. Padre Island, extending north for 100 m. from the mouth of the Rio Grande River, en-

closes Laguna de la Madre.

Relief. Texas is crossed by the Gulf Plains Province, the Prairie Plains Province, and the Great Plains Province. The surface rises from sea level along the coast to altitudes in excess of 6,000 ft. among the ranges which cross the extreme southwestern part of the state. The Gulf Plains Province of the state, a part of the Great Coastal Plain of the United States, lies immediately back of the coast-line. For a distance of 30-100 m. inland the country is nearly level, no point being more than 100 ft. above sea level. Farther west the surface is more broken and rises to maximum elevations of 600-700 feet. The Gulf Plains Province merges with that of the Prairie Plains along a line drawn southwest from the southeast corner of Oklahoma. Along its eastern margins the Prairie Plains section is gently rolling in the northeast, but becomes quite rugged towards the south, and the western half rises in a succession of scarps or steppes to an elevation of 2,500 ft., to the Great Plains Province. The Great Plains region, beginning

about the 100th meridian, occupies nearly all of the western half of the state and ranges in elevation from 2,000-4,000 ft. above the sea. South of about 32° N. latitude, the country is known as the Edwards Plateau, and northwards to the Canadian River as the Llano Estacado. These high rolling plains are deeply cut by the rivers that flow across them, often through gorges and canyons, between which are broad stretches of rolling to nearly level plateau country. In the southeastern corner of the Trans-Pecos Province is a smaller plain known as the Stockton Plateau, but the remaining portion of the Trans-Pecos Province is traversed by isolated mountain ranges of the Basin Range, or block mountain type. The highest point in the state is Baldy Peak, in Jeff Davis County. Between the Basin ranges there are numerous extensive intermountain basins, lying at elevations of 2,000-4,000 ft. above sea level, which constitute a continuance of the High Plains southwest to the Rio Grande River.

Drainage. The drainage of Texas is wholly to the Gulf of Mexico, either directly or indirectly. The northern portion of the Panhandle is drained by the Canadian River eastward into the Arkansas; the southern portion of the Panhandle and a stretch along the northern border of the state is drained by the Red River eastward and southeastward into the Mississippi. The Rio Grande and its principal tributary, the Pecos, drain narrow basins in the southwest. These two rivers and the Canadian River rise in the Rocky Mountains in Colorado and New Mexico, but all the other rivers by which the state is drained rise within its borders and flow directly into the Gulf of Mexico. The Red, the Brazos, the Colorado, the Guadalupe, the Nueces, and the San Antonio, rise on the eastern or southeastern border of the Great Plains prov-

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ince, the Sabine and the Trinity on the Prairie Plains, and numerous small streams are wholly in the Coastal Plain. In the Great Plains region the rivers have cut deep canyons. Many of the large rivers have deposited great quantities of silt along their lower courses on the Coastal Plain, where the current becomes sluggish and the banks are frequently inundated, and many of them are obstructed by sand-bars at their The Red River and the Big Cypress mouths. Bayou afford important steamboat navigation for the northeast section; the Sabine River, forming part of the boundary between Louisiana and Texas, is navigable for small steamboats for some distance; the Trinity River is over 500 m. in length, of which 300 m, and more are navigable for steamboats at high stages of water; the Brazos is navigable for 300 m. from its mouth, but at low-water its channels are encumbered by shifting sands; the Colorado River empties into Matagorda Bay and is navigable to Austin; the Guadalupe, the San Antonio, and the Nueces afford but few commercial facilities. The Rio Grande in its lower course is a comparatively large stream, crooked and swift, but navigable for considerable distances at periods of high-water. The longer rivers. often mere rivulets near their sources, become swift and powerful streams during spring freshets. Texas has numerous small fresh-water lakes on the Coastal Plain, and both salt- and fresh-water lakes in the western part of the state. The best known lakes are Grand Lake in Colorado County, Clear Lake in Harris County, and Caddo Lake on the Louisiana border.

Climate. The climate on the Coast Plains is semitropical, tempered by winds from the Gulf. The north experiences cool winters with occasionally heavy snow storms. The mean annual temperature decreases to the northwestward with an increase of altitude, and ranges from about 74° in the Rio Grande valley to 55° F. in the northern portion of the Panhandle. Along the coast, there are only three or four days during the year in which the temperature drops below freezing point. The mean temperature for January at San Antonio is 51° and the summer mean 82° F. At Amarillo, the corresponding means are 34°, and 76° F. The average annual rainfall decreases from about 48 in. at Galveston to 9½ in. at El Paso. Along the coast the autumn months are the wettest and the spring months are the driest; in the middle, eastern, and northeastern parts of Texas. the spring months are the wettest and the winter months are the driest; and in the western and southwestern parts, the summer months are the wettest and the spring months are the driest. The average annual snowfall for the state is about 5 in., ranging from 20 in. the northern portions of the Panhandle to scarcely any along the coast and in the Rio Grande valley. The prevailing winds throughout most of the state are southerly or southeasterly in spring and summer. Along the coast they continue in the same direction throughout the year, but inland they usually shift to north or northwest, either in autumn or winter. The air of western Texas is so dry that meats are perfectly preserved in the open air without salt. The "Norther," a sudden and extreme change of temperature produced by a rush of cold wind from the north, lasts ordinarily for three days, and the fall in temperature is often as much as 30°.

Agriculture. The soils of Texas are as varied as are its surface features. The greater part of the Gulf Plain and the Prairie districts form good general farming land. The most striking characteristic of the western half of Texas is the great area of arid and semiarid land, utilized for grazing purposes only or left unutilized. The same was true until recently of the extreme southern portion. As a whole, Texas ranks as one of the greatest agricultural states in the Union. Of the land area of the state 67 per cent is in farms. The general character of Texas agriculture is indicated by the fact that nearly two-thirds (63.3 per cent) of the total value is contributed by cotton, and less than one-quarter (22.5 per cent) by cereals. The remainder, representing 14.2 per cent of the total, consists mostly of hay and forage, potatoes and other vegetables, and forest products. The leading crops (in the order of their importance as judged by value) are: cotton, corn, cottonseed, hay and forage, rough rice, Kafir corn, milo maize, oats, wheat, and sweet potatoes and yams. Cotton has an acreage exceeding that of all other crops and a value almost twice as great. Strawberries are by far the most important of the small fruits raised in Texas, with blackberries and dewberries ranking next. The acreage devoted to the growing of small fruits is steadily increasing. Orchard fruits, grapes, nuts, and tropical fruits are extensively cultivated. The sugar crops, including cane-sugar, sorghum, and beet sugar, are important. Cereals are grown generally throughout the state, excepting in the arid western land. The crop of Indian corn is especially large in a belt of counties beginning near the northeastern corner of the state and extending in a southwesterly direction. Most of the rice is raised along the seaboard in the southeastern corner of the state. The largest crops of cotton are grown in the cereal growing counties. stock-raising interests of Texas are greater than those of any other state in the Union.

Forests. Nearly one-quarter of the area of Texas is estimated to be wooded, and the lumber producing possibilities are of great economic importance. The pine and hardwood areas occur chiefly in the northeastern part of the state, and are bordered on the west by scattering growths of hardwood. Sparse scrub timber, of little value except for domestic purposes, covers the region to the westward. Outside of these general forest areas, forest products are of comparatively slight value, the exceptions being the dense growth of live-oak in certain restricted areas, and scattered patches of hickory.

Fisheries. The state has valuable fisheries, the principal catches being red snappers, oysters, squeteague, and channel bass.

Minerals. Petroleum is the most valuable of the mineral products of Texas. Next in order of importance are coal, clay products, natural gas, asphalt, stone, lime, and salt. Other minerals found in small quantities are copper, lead, zinc, manganese ores, and tin.

zine, manganese ores, and tin.

Manufactures. The manufactures of Texas depend largely for their raw materials upon stock-raising, agriculture, and the mineral products of the state; they have been greatly stimulated by the rapid increase in the output of these materials. The most important industries (arranged in the order of the value of products) are: slaughtering and meat packing, flour-milling.

lumbering and the manufacture of timber products, the manufacture of cottonseed-oil and

cake, and the refining of petroleum. Education. The public schools of the state are supervised by a state board composed of the governor, comptroller, and secretary of state; by a superintendent of public instruction, who is ex officio secretary of the board; by county superintendents (in counties having a school population of 3,000 or more); by superintendents and boards of trustees in corporate towns and cities; and by school commissioners in the rural districts. Texas has a larger permanent school fund than any other state in the Union. School revenues, aside from that derived from the permanent fund, are raised by state and local taxes, by a poll-tax on males between the ages of twenty-one and sixty, by a state occupation tax, by county funds, and by tuition fees. Separate schools are maintained for white and colored children, and impartial supervision is made for both races. For higher education the state maintains the University of Texas, at Austin (the Medical Department at Galveston), and it supports, either wholly or in part, an Agricultural and Mechanical College, at College Station; a Land Grant College, near Bryan; the Sam Houston Normal Institute, at Huntsville; the North Texas State Normal, at Denton; the Southwest Texas Normal, at San Marcos; the School of Industrial Arts, for girls, at Denton; and the Prairie View Industrial and Normal School, for negroes, near Hempstead. Among many other institutions for higher education in the state may be mentioned: the Rice Institute of Liberal and Technical Learning (nonsectarian), at Houston; Baylor University (Baptist), at Waco; the East Texas Normal and Industrial Academy (Baptist), at Tyler; Trinity University (Presbyterian), at Waxahachie; Austin College (Presbyterian), at Sherman; Southwestern University (Methodist Episcopal), at Georgetown; the Polytechnic College (Methodist Episcopal) dist Episcopal, South), at Fort Worth; Texas Holiness College (Holiness), near Greenville; Texas Christian University (Christian), at Thorp's Spring; St. Edward's College (Roman Catholic), at Austin; North Texas Female College (Methodist Episcopal, South), at Sherman; the Academy of Our lady of the Lake (Roman Catholic), at San Antonio; Paul Quinn College for Negroes (African Methodist Episcopal), at Waco; Tillitson College (Congregational), at Austin; and Bishop College (Baptist), at Marshall

Government. Texas is governed under the constitution adopted in 1876, and its amendments. All male citizens over twenty-one years of age, and residents of the state for one year, and of the county or election district for six months immediately preceding election (except paupers, idiots, lunatics, felons, and persons who have taken part either as principal or second in fighting a duel or sending a challenge) have the right to suffrage. EXECUTIVE. The chief executive officers are a governor, lieutenantgovernor, secretary of state, comptroller of public accounts, treasurer, commissioner of the general land office, and attorney-general. All executive officials are elected by popular vote for terms of two years, except the secretary of state, who is appointed by the governor. The governor and lieutenant-governor must be at the time of election at least thirty years of age, citizens of the United States, and residents of the state for the preceding five years. In addition to the usual privilege of granting pardons and reprieves, the governor controls considerable patronage, and possesses a power of veto which extends to separate items in appropriation bills. A two-thirds majority in each house is necessary to override a veto, LEGISLATIVE. The state legislature is composed of a Senate and a House of Representatives. Senators are elected by popular vote for four years, one-half retiring every two years. Representatives are elected biennially. Senators and representatives must be at least twenty-six years of age, citizens of the United States, qualified electors of the state, and residents of the state for two years, and of the district for one year preceding the election. The legislature meets at Austin biennially (odd number years), but special sessions may be called by the governor. Sessions are limited to 60 days. JUDICIARY. The state judiciary consists of a supreme court of three members, elected for a term of six years, with civil juris-

diction only, largely appellate; a court of criminal appeals with three judges, elected for six years; courts of civil appeals with three judges, elected for six years; district courts each with one judge, elected for four years, with original jurisdiction in the more important civil and criminal cases and a limited appellate jurisdiction; county and justice of the peace courts, with original jurisdiction in misdemeanors and petty civil cases. The commissioners' court of five members, including the presiding judge, attends to all business matters of the county. LOCAL GOVERNMENT. The county is the unit of local government. Among the county officials are the prosecuting-attorney, sheriff, clerk of court, county clerk, county assessor, county treasurer, county surveyor, and superintendent of schools, all elected by popular vote, and a county auditor who is appointed.

History. An attempt at settlement was made by Sieur de la Salle about 1685 and several missions were established by the Spaniards in the 18th century. The region was invaded by various adventurers early in the 19th Century. It formed, with Coahuila, a state of Mexico, and was settled rapidly about 1820-'30 by American colonists. Most of these colonists came from the southern states of the Union and brought their slaves with them. A rebellion against Mexico broke out in 1835; the garrisons at the Alamo and Goliad were massacred by the Mexicans in 1836; and the Mexicans were finally defeated by Houston at San Jacinto, April 21, 1836. Texas was a republic from 1836-'45, when it was annexed to the United States. It was largely the cause of the Mexican War of 1846, and the scene of many of the conflicts in that struggle. By the terms of the treaty which terminated the conflict, the Rio Grande River became the boundary between Texas and Mexico. As one of the slave states, Texas seceded in 1864, was the scene of many stirring events during the Civil War, and the last battle of that conflict was fought on its soil, at Palmito near Palo Alto, on the 13th of May, 1865, more than a month after the surrender at Appomattox. A hurricane and high tide in 1900 destroyed 4,000 lives and \$10,000,000 worth of property at Galveston.

UTAH

UTAH, one of the Mountain States of the United States, lies between latitudes 37° and 42° N., and longitudes 109° 5′ and 114° 2′ W. It is bounded on the N. by Idaho and Wyoming, on the E. by Wyoming and Colorado, on the S. by Arizona, and on the W. by Nevada. The state has an extreme length from north to south of 345 m., and an extreme width from east to west of 285 miles. In gross area it ranks tenth among the states of the Union (84,990 sq. m., of which 2,806 sq. m. represent water surface).

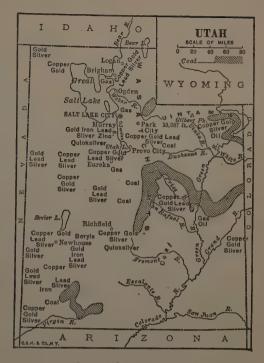
Relief. The mountains which enter Utah from Idaho near the center of the northern

boundary line, and extend southward through the state nearly to the Colorado River, are known as the Wasatch Mountains. These mountains have a general elevation of about 10,000 ft. and comprise many ranges, ridges, spurs, isolated mountain masses, and plateaus, and various local names are given to the different sections. They form a natural dividing line between the eastern and western portions of Utah. The eastern and more elevated portion, constituting a part of the Colorado Plateau Province, is occupied in the extreme north by the lofty Uinta Mountain Range, which,

running east and west, contains the highest points in the state; Gilbert Peak (13,687 ft.), Emmons Peak (13,624 ft.), and Wilson Peak (13,300 ft.). South of the Uinta Mountains the surface consists of many broad elevated plateaus lying from 9,000 to 10,000 ft. above sea level. These are generally forested, but as yet are mostly unoccupied by settlers. The plateaus are separated by deep and sometimes broad valleys carved out by erosion, and these owing to their fertility, are occupied to some extent by settlers. In the southern part of the state the high plateaus descend by a series of terraces or cliffs to the general level of the Grand Canyon platform of northern Arizona. Here also, in the wilderness of San Juan county, are found the largest and most famous natural bridges of the world, the largest having a span of 330 ft. and a height above the chasm below of 350 ft. The western portion of Utah, lying wholly within the Great Basin Province of the United States, has a mean elevation of from 4,000 to 5,000 ft. above the sea. The surface is characterized by nearly level desert areas broken at intervals by numerous mountain ranges having a north-south direction. Among these ranges may be mentioned the Oquirrh, the Beaver River, the Parowan, the Tushar, the Sevier, and the Iron Mountains.

The state of Utah lies mainly in Drainage. the Great Basin and is without navigable rivers The eastern part is drained wholly by the Colorado River and its two head streams the Green and the Grand Rivers. The canvons of the Green, Grand and Colorado Rivers afford some of the most impressive and magnificent scenery in the world. Among the minor streams of the Colorado system are the Uinta, Duchesne, Price, San Raphael, Fremont, and the Escalante from the west; and the White and San Juan from the east. The drainage of western Utah is carried almost wholly to the salt lakes which are characteristic of this region, the largest and most famous being Great Salt Lake in the northern part of the state. This lake lies at an elevation of 4,200 ft. above the level of the sea; it is about 80 m. long and from 20 to 40 m. wide, and has a maximum depth of 48 feet. It has no outlet, and incloses several islands. Its principal tributaries are the Bear, the Jordan, and the Weber Rivers, all of which enter on the eastern side. The waters of this lake are buoyant and heavily impregnated with chloride of sodium (common salt). Utah Lake, drained into the Great Salt Lake by the Jordan River, and Lake Sevier in Millard County, are next in importance to Great Salt Lake. A small area in the southwestern part of the state is drained by the Virgin River to the Colorado system.

Climate. The state has a wide range in climatic conditions. Extremely cold weather occurs on the lofty plateaus and mountain ranges, but a milder climate prevails in the intervening valleys and basins. The mean temperature of the state ranges from 58° in the



extreme south to 42° F. in the north. Winter temperatures of 15° to 20° below zero are not uncommon in the higher altitudes, while summer temperatures of over 100° are frequently recorded in the south. At Salt Lake City the mean winter temperature is 31°, the mean summer temperature 73½° F. The rainfall in the north-central portion of the state is sufficient for growing grain crops on the higher lands without irrigation. The normal annual precipitation in that section is about 15 inches. In the west the normal annual precipitation ranges from 5 to 10 inches. Irrigation is practised throughout the state.

Agriculture. Only 6.5 per cent of the total land area of Utah is included in farms. The greater portion of the agricultural land of the state lies along the western border of the mountain and plateau district, where waters from higher levels are brought down and applied to the sandy and gravelly loams along the margin of the Great Basin Region, to the finer grained sediments of the stream valleys, and to the level floors of recent lake basins. Dairying is the most important agricultural industry. One of the striking characteristics of Utah is the presence of great areas of semiarid lands which are utilized, if at all, for grazing purposes only. Upon this land are many very large farms or ranges, sometimes exceeding 100,000 acres in The general character of Utah agriculture is indicated by the fact that about onethird (33 per cent) of the total value of crops is contributed by the cereals, about two-fifths (39.3 per cent) by hay and forage, and about one-tenth (10.1 per cent) by sugar crops. The remainder, representing in value 17.6 per cent of the total, consists mostly of potatoes and other vegetables, and fruits and nuts.

Forests. The forest resources of Utah are limited in value; the only timber of commercial importance is found in the yellow pine forests of the Uinta Range in the northeastern corner of the state. The timber of the Wasatch Range is small and scattered. There are in Utah fourteen national forest reserves embracing over

7,400,000 acres.

Minerals. The state has valuable mines—chiefly gold, silver, copper, and coal. Other mineral products are lead, zinc, manganese ores, gypsum, petroleum, and sulphur. Salt is obtained by solar evaporation. Among other non-metallic minerals are limestone and sand-stone, marble, onyx and clay products. Many precious and semiprecious stones are found in Utah, including garnet, amethyst, jasper, topaz,

tourmaline, opal, malachite, etc.

Manufactures. The waters of the numerous mountain streams have been utilized in the generation of electrical energy, which is used not only in manufacturing but also in mining and other industries. Although Utah is comparatively unimportant as a manufacturing state, its manufactures have shown marked increase in recent years. Three industries, the smelting and refining of copper, the smelting and refining of copper, the smelting and refining of lead, and the manufacture of beet sugar, greatly predominate in importance. Next in the order of value are flour-mill and grist-mill products, cars and general shop construction and repairs by steam railroad companies, printing and publishing, and the manufacture of butter, cheese, and condensed milk.

Education. The general free school system

of Utah was founded in 1890 by a law which consolidated all the districts in each city into one large school district, and classified Salt Lake City as a city, and Ogden, Logan, and Provo as cities of the second class for school purposes. At the head of the public school system is a state superintendent of public instruction, elected for four years, and a board of education composed of the state superintendent, the president of the state university, the president of the agri-cultural college, and two appointees of the governor, all serving for four years. Each county has a superintendent, whose term is two years. In each district there is a board of three trustees. one retiring each year. Two or more contiguous districts may unite to form a high school district. School attendance is compulsory for twenty weeks each year in rural districts, and for thirty weeks each year in cities of the first and second class for all children between eight and sixteen years of age. In addition to the public schools, the state maintains the University of Utah, at Salt Lake City and, affiliated with it, the State Agricultural College and Experiment Station, at Logan; a branch Normal School at Cedar City; and a State School for the Deaf and Blind, at Salt Lake City. The state also maintains a state art collection, and a course of public lectures on art. The Mormons contrel Brigham Young University, at Provo; the Brigham Young College, at Logan; the Latter Day Saints University at Salt Lake City; and academies at Ogden, Ephraim, Castle Dale, Beaver, and Vernal. Other denominational schools are St. Mary's Academy (Roman Catholic), in Salt Lake City; All Hallows College (Roman Catholic), in Salt Lake City; Westminster College (Presbyterian), in Salt Lake City; and Presbyterian Academies at Logan, Springville, and Mt. Pleasant; Rowland Hill Academy (Protestant Episcopal, for girls), at Salt Lake City; and Gordon Academy (Congregational), at Salt Lake City.

Government. The state is governed under the first constitution adopted in 1895, and its amendments. Entitled to the suffrage are citizens of the United States, male or female, twenty-one years of age or over, who have lived in the state for one year, in the county for four months, and in the precinct for sixty days preceding election. Excluded from the suffrage are idiots, insane persons, and those convicted of treason or crime against the elective franchise; but in elections levying a special tax, creating indebtedness, or increasing the rate of state taxation, only those who have paid a property tax during the preceding year may vote. Execu-TIVE. The executive department consists of the governor, secretary of state, auditor, treasurer, attorney-general, and superintendent of public instruction—all elected by the people at the time of the presidential election and holding office for four years from the first day of January following the election. All of these officers must be qualified electors and must have resided within the state for five years preceding their election. The governor and secretary of state must be at least thirty years old. With the consent of the Senate the governor appoints the minor executive officials and fills vacancies in the elective offices; his veto power which extends to items in appropriation bills, can be overridden by a two-thirds vote of each house of the legislature. LEGISLATIVE. The legislature consists of the Senate and House of Representatives. It meets at Salt Lake City biennially, on the second Monday in January (odd number years). No person is eligible to either house who is not a citizen of the United States, at least twenty-five years of age, a resident of the state for three years, and of the district from which he is chosen for one year. Senators are elected for four years, one-half of the membership retiring every two years. Representatives are elected for two years. No person who holds any office of profit or trust under the state or federal governments is eligible to the legislature. JUDICIARY. Judicial power is vested in the Senate, sitting as a court of impeachment, in the supreme court, in district courts, in justices of the peace, and in such inferior courts as may be established by law. The supreme court consists of three judges elected for a term of six years, but the term of one expires every two years, and that justice who shall have the shortest time to serve acts as chief justice. The state is divided into seven districts in which from one to four judges are elected for terms of four years. At least three terms yearly must be held in each county. Each precinct elects a justice of the peace. Local Government. The chief fiscal and police authority is the board of county commissioners of three members, two elected every two years, one for two years and one for four. Other county officers are the clerk, sheriff, treasurer, auditor, recorder,

surveyor, assessor, attorney, and superintendent of district schools. Cities are governed by a commissioner and a council.

History. This region formed part of the lands ceded by Mexico in 1848. The Mormons settled here in 1847-'48. Utah was organized as a territory in 1850. The Mountain Meadow Massacre of Gentile settlers by Indians and Mormons occurred in 1857. Disturbances which occurred in 1856 led to the sending of an expedition of United States troops to Utah in the following year. The Mormons submitted to the federal government in 1858. The Edmonds Act of 1882, followed by supplementary legislation, punished and discouraged polygamy in the Mormon church. Utah was admitted as a state in 1896.

VERMONT

VERMONT (Green Mountain), the northwesternmost of the New England States and the only one of that group which is wholly inland, lies between latitudes 42° 44′ and 45° 0′ 45″ N., and longitudes 71° 30′ and 73° 39′ W. It is bounded on the N. by the Canadian province of Quebec; on the E. by New Hampshire, from which it is separated by the Connecticut River; on the S. by Massachusetts; and on the W. by New York from which it is in part separated by Lake Champlain. Vermont has an area of 9,564 sq. m. and of this 440 sq. m. is water surface. In size it ranks as the forty-second state of the Union.

Relief. The surface of Vermont is plateaulike and forms a part of the New England Upland. It is broken by hills, mountain ranges, and isolated peaks, and cut by deep narrow river valleys. The mean elevation of the state is about 1.000 feet. Extremes range from 100 ft. on the northeastern shore of Lake Champlain to over 4,000 ft. in the southwestern part of the state. The Green Mountains run nearly north and south through the state and form its most important physiographic feature. The range for about two-thirds of its length north from Massachusetts is but slightly broken, but in its northern third is interrupted by the deep valleys of the Winooski and Lamoille Rivers. The summits range from 2,000-4,364 ft., the latter being the height attained by Mount Mansfield, the culminating point in the state. Other summits above 4,000 ft. are Killington Peak (4,241 ft.), Camel's Hump (4,088 ft.), Mount Lincoln (4,078 ft.), and Jay Peak (4,025 ft.). West of the Green Mountains a line of heights, known as the Taconic Mountains, extends from New York and Massachusetts northward to the center of the state; and another broken series of heights known as the Red Sandrock Mountains run northward along the shore of Lake Champlain. The Taconic Mountains are low, irregular masses of 1,500-2,000 ft., and reach their culminating elevation in Mount Equinox (3,816 ft.), southwest of Manchester.

highest point of the Sandrock Mountains is Snake Mountain (1,271 ft.), in Addison County. Along the entire eastern border of the state are a number of tall and conical shaped masses known as the Granitic Mountains, and between these and the Green Mountains there are many high hills and deep and picturesque valleys. Mount Ascutney (3,320 ft.), tallest of the Granitic Mountains, is about two miles west of the Connecticut River in Windsor County. The mountains are generally rounded in outline, are largely clad with forests, and afford rich pasturage. The area of lowest eleva-



tion in Vermont is in the northwestern corner and in it are included the beautiful islands in

Lake Champlain.

Drainage. In the southern two-thirds of the state, the Green Mountains form the waterparting between the streams that flow west or northwest into the Hudson River and Lake Champlain, and those that flow east into the Connecticut River; farther north, the Granitic Mountains form the parting between eastward and westward flowing streams; and a third drainage basin is the small area tributary to Lake Memphremagog on the northern border, whose waters, like those of Lake Champlain, are carried to the St. Lawrence River. The largest and only navigable rivers of Vermont are among those which empty into Lake Champlain; the Missisquoi, the Lamoille, the Winooski, and Otter Creek. The Batten Kill is the chief river flowing into the Hudson. The Black, Barton, and Clyde Rivers flow into Lake Memphrema-gog. The Deerfield, West, Williams, White, Passumpsic, and Nulhegan Rivers are the largest of the streams flowing to the Connecticut. North of Massachusetts the Connecticut River is wholly in New Hampshire, Vermont's eastern boundary being low-water mark on the west bank of that river. Lake Champlain, whose discharge is northward through the Richelieu River into the St. Lawrence River, lies in the valley between the Green and Adirondack Mountains. It extends along the western boundary of Vermont for 110 miles and more, and the picturesque shores and islands afford many delightful locations for summer homes and resorts. Lake Memphremagog, on the northern boundary, lies 470 ft. above the sea and is noted for its picturesque setting. It is about 30 m. long and from one to 4 m. wide. There are numerous other small lakes and ponds lying wholly within the state. Of these Lake Bomoseen in Rutland County and Willoughby Lake in Orleans County are the largest

Climate. Vermont has long severe winters, and cool, comfortable summers, but sudden changes of temperature are frequent at all seasons. The mean temperature for the entire year is 43° F.; for January, the coldest month, it is 68° F. The eastern section of the state is colder than the western, and the central or most rugged section is still colder. The mean annual precipitation for the entire state is about 38.5 in.; the average annual snowfall for all sections is about 85-90 inches. In the Connecticut and Hudson-Champlain valleys the winds are usually from either the north or the south; but in many of the smaller valleys the prevailing winds are

from the northwest.

Agriculture. Vermont is chiefly an agricultural state and utilizes for farming most of the land adapted to that purpose. According to the reports of the United States Census Bureau 79.9 per cent of the state's area is included in farms, and of the farm acreage 35 per cent is

reported as improved land. On the higher elevations the soil is stony and sterile, but in the valleys and on many of the lower hills it is quite productive. The best soils are in the west section. The competition of the rich western farm lands has made the agriculture of Vermont develop further toward specialization in dairying and the raising of live stock. The horses of Vermont are among the best known of American racing stocks, and include the Morgan, Messenger, and Black Hawk stocks. Hay and forage are the most important crops. Cereals are relatively unimportant.

are relatively unimportant.

Forests. The woodland area of Vermont originally included forests of white pine, spruce, hemlock, and some hardwoods. The most valuable of the timbers, white pine, is no longer commercially important. The forest area is estimated at 43 per cent of the total land area of the state. The annual output of maple sugar is nearly one-third the total production of the United States. The butter and cheese made in

Vermont are of superior quality.

Minerals. Vermont is rich in quarries of granite, marble, and slate, which are extensively worked. Steatite, verd-antique, sulphuret of iron, manganese, kaolin, and iron exist.

Fisheries. Lake Champlain furnishes the only commercial fishing grounds in the state, with the exception of small catches of white fish in some of the smaller lakes. The most valuable fish taken from Lake Champlain are the wall-

eyed pike and pickerel.

Manufactures. Marble and stone working, the manufactures connected with the lumber industry, and the foundry and machine-shop industry, represent the leading manufacturing interests of Vermont. Next in order of importance are the manufacture of worsted and woolen goods, paper and wood-pulp, butter, cheese, and condensed milk, furniture, patent medicines, men's clothing, and hosiery and knit goods.

men's clothing, and hosiery and knit goods.

Education. The public schools of Vermont are open to all children between the ages of five and twenty, and attendance for twenty-six weeks is made compulsory for those who are between the ages of eight and fifteen. The schools are organized under a township system and are under the supervision of a state superintendent of education, elected biennially by the General Assembly. Local schools are under union superintendents, and in a few cases under town superintendents. The chief institutions for higher instruction are the University of Vermont and State Agricultural College, at Burlington; Middlebury College, at Middlebury; Norwich University, at Northfield; and the state normal schools at Randolf, Johnson, and Castleton.

Government. Vermont is governed under

dovernment. Vermont is governed under the constitution of 1793 and its amendments. All citizens of the United States residing in Vermont are citizens of the state. The right of suffrage is confined by the constitution to adultimate citizens who have resided in the state for one year. Women have the right to vote in all its constitution of the state of th

elections relating to schools and school officers in cities, towns and graded school districts, and also the right to be elected to any local school position or to the office of township clerk. EXECUTIVE. The executive officers of the state are a governor, a lieutenant-governor, a secretary of state, a state treasurer, and an auditor of accounts, all elected by popular vote. In addition to the foregoing are an inspector of finance, a commissioner of taxes, a superintendent of education, a fish and game commissioner, three railroad commissioners, and various boards and commissions, some members of which are elected by the General Assembly, while others are appointed by the governor with the advice and consent of the Senate. All elections and appointments are biennial. The governor, whose term of office covers a period of two years, has restricted powers of appointment and par-don, and a veto power which may be set aside by a majority vote in each house of the legisla-LEGISLATIVE. The legislative department, or General Assembly, consists of a Senate and a House of Representatives. Members of the Senate are apportioned among the counties according to population, but with the proviso that each county must have at least one senator. Members of the House of Representatives are chosen by townships, each township being entitled to one member. The legislature meets at Montpelier, biennially (odd number years). The length of session is not limited by law. The powers of the two houses are equal except that all measures relating to revenue must originate in the House of Representatives. JUDICIARY. The judiciary of Vermont is composed of a supreme court of seven members, a court of chancery, a county court in each county, a probate court in each probate district, and justices of the peace. The judges of the supreme court are elected biennially by the General Assembly, but all the other judicial officers are elected by popular vote. LOCAL GOVERNMENT. For the administration of local affairs the state is divided into fourteen counties and two hundred

and forty-five townships. There is no board of supervisors or commissioners as in most of the states, but the county is administered by the assistant judges of the county court. The assistant judges, the sheriff, and the state's attorney are elected annually by popular vote. The county treasurer is elected by the assistant judges. The chief township officials are a moderator, a board of selectmen, a clerk, a treasurer, and a superintendent of schools. Any community containing thirty or more houses may, with the consent of the selectmen of the town, receive a separate village organization. The officials of a village are a clerk, five trustees, a collector of taxes, and a treasurer.

collector of taxes, and a treasurer. History. Samuel de Champlain, the French governor of Quebec, discovered the lake which bears his name in 1609, and thus laid the basis for the French claim to the region. The French built a fort on Isle La Motte in 1665. Part of the country was claimed by Massachusetts, which planted the first permanent white settlement (1724) at Fort Dummer, in the present town of Brattleboro. Soon after 1750 numerous settlements were made under the auspices of New Hampshire, which also claimed jurisdiction in the region. New York laid claim to the country as far east as the Connecticut River, by virtue of the charter granted to the Duke of York. George the Third decided in favor of New York in 1764, and discord continued until 1771, when the people declared themselves independent and drew up a state constitution. In 1791, Vermont was admitted into the Union, the first state added to the original thirteen. The "Green Mountain Boys" bore a notable part in the War of the Revolution; and in the War of 1812, and again in the Civil War, 1861-'65, the sons of Vermont distinguished themselves by their bravery and devotion to the Union. In the latter war one-half of the ablebodied men in the state were enrolled as soldiers. In a clause of the constitution of 1777 Vermont abolished slavery, the first of the American states to take such action.

VIRGINIA

VIRGINIA, one of the South Atlantic group of states, and one of the thirteen original states of the Union, lies between latitudes 36° 30′ 28″ and 39° 27′ N., and longitudes 75° 15′ and 83° 40′ W. It is bounded on the NW. by Kentucky and West Virginia, on the NE. by Maryland, and on the S. by North Carolina and Tennessee. In size Virginia ranks thirty-third among the states of the Union, its area being 42,627 sq. m., of which 2,265 sq. m. represent water surface.

Relief. Four distinct physiographic belts cross Virginia from NE. to SW., with altitudes ranging from sea level along the eastern border, to nearly 6,000 ft. in the mountainous region in the southwestern part of the state. The Coastal Plain province in the east, known as Tide-Water Virginia, extends westward to what is known as

the "fall-line," corresponding very nearly to the meridian of Richmond. This section is deeply indented by bays and estuaries, between which the country is generally low and gently rolling, the surface rising gradually to altitudes of 150 to 350 ft. along the "fall-line." In Tide-Water Virginia is included the detached east shore which lies on the eastern side of Chesapeake Bay. Piedmont Virginia, beginning at the "fall-line," extends westward to the foot of the Blue Ridge Mountains. It forms the central and largest of the physiographic provinces of the state, and its altitudes range from 350 ft. along its eastern border to altitudes of 800 to 1,200 ft. in the west. West of the Piedmont section is the Blue Ridge belt of the state. This mountain range is represented to the northeastward by,



the Highlands of the Hudson in New York Schooley Mountain in New Jersey, and South Mountain (also Blue Ridge) of Pennsylvania and Maryland. It is about three miles in width where it enters the state near the Maryland boundary, and gradually spreads out to a width of twenty miles near the North Carolina boundary. It is continued to the southward as far as Alabama. Its highest elevations in Virginia are the Peaks of Otter (4,000 ft.) in Botetourt and Bedford Counties. Immediately to the west of the Blue Ridge is the Great (limestone) Valley of Virginia (a part of the Great Appalachian Valley of the eastern United States), which is nearly twenty miles broad throughout its entire extent, with an elevation varying from 250 ft. above sea level in the north, to more than 1,600 ft. at the southern boundary of the state. The floor of this valley is undulating, and is frequently interrupted by low ridges, and even by mountain masses. The western portion of the state consists principally of the folded Alleghany ridges, between which several small limestone valleys are to be found in the extreme west. Only a small portion of Virginia lies within the Appalachian Plateau. In the limestone regions of the state caverns and natural bridges occur, among which the Luray Cavern and the Natural Bridge are the best known.

Drainage. The greater part of the state is drained by rivers flowing from NW. to SE. across the Blue Ridge, the Piedmont and the Coastal Plain sections. The principal eastward flowing streams from N. to S. are the Potomac, Rappahannock, York, and James, all of which have broad estuaries, navigable for some distance from their mouths. The James River meets the tide at Richmond, about 150 m. from the ocean. Its estuary is more than 50 m. long and nearly 5 m. wide in some places. This estuary connects with Chesapeake Bay through

Hampton Roads. Hampton Roads forms the harbor for the leading ports of the state; Norfolk and Newport News, and affords one of the best anchorages on the Atlantic coast. The great Valley of Virginia is drained to the Potomac in its northern section, by the Shenandoah River. In it, also, are the headwaters of the James, Roanoake, New (Great Kanawah), and Holston Rivers. Through the two last mentioned rivers the waters of the southern part are carried to the Mississippi through the Ohio and Tennessee Rivers, respectively.

Climate. The mean annual temperature of Virginia is about 59°, with a winter mean of 40° and a summer mean of 77° F. The climate is generally free from extremes of heat and cold. The greatest variability in temperature conditions occurs in the Blue Ridge and Appalachian Mountain regions, while only moderate extremes of temperature prevail in the lowlands and lower mountain valleys. The annual rainfall varies from about 35 to 48 inches.

Agriculture. Of the state's entire land area, more than three-fourths is included in farms. As in other eastern states, the total farm acreage and the improved acreage have decreased; but there has been an increase in the number of farms, and a much greater increase in the value of all farm property. The average size of the Virginia farm has decreased continuously from 245.7 acres in 1870, to 105.9 in 1910. The "plantation" which was formerly the common farm unit in a large part of the state, has been divided into smaller parcels of land operated by tenants. The leading farm crops (in the order of their importance as judged by value) are: tobacco, hay and forage, forest products of farms, and potatoes (including sweet potatoes and yams).

Fisheries. The waters of Chesapeake Bay and the estuaries of the rivers furnish impor-

tant fishing grounds, oysters being the most valuable of the fishery products. Next in importance are the catches of menhaden, shad,

clams, squeteague and alewives.

Minerals. The most valuable mineral product of Virginia is bituminous coal. The most important coal fields lie in the mountain regions in the southwestern part of the state, though there are also rich deposits in the counties of Henrico, Chesterfield, Goochland, and in parts of Powhatan and Amelia counties; and in Tazewell, Russell, Scott, Buchanan, Wise and Lee counties occur rich deposits of coal, which are very valuable because of their proximity to vast deposits of iron ores. There are deposits of iron ore in the Alleghanies and western foot hills of the Blue Ridge.

Forests. The woodland area of Virginia is equal to over 50 per cent of the area of the state. The mountain regions grow pine, hardwood and The Piedmont region produces oaks with some pine. Most of the pine of the mountain region has been cut, and all commercial

timbers are rapidly disappearing.

Manufactures. The natural advantages of Virginia are favorable to the development of manufacturing in the state and there has been a considerable advance during recent years in most of the manufacturing industries. though a few industries greatly predominate, the most important (arranged in the order of the value of products) are: lumber and timber products, tobacco manufactures, flour and grist-

mill products, and railroad cars.

Education. Virginia has a free public school system, which is administered by a state board of education, a superintendent of public instruction, division superintendent, and district and county school boards. The state board of education consists of the governor; the attorney general; the superintendents of public instruction, who is ex officio, its president; three experienced educators chosen quadrennially by the Senate from members of the faculties of the leading schools of the state; and two division superintendents, one from a county and one from a city, chosen biennially by the members of the board. All children between the ages of eight and twelve "are required to attend a public school at least twelve weeks in the year (six weeks consecutively) unless excused on account of weakness of mind or body, unless the child can read and write and is attending a private school, or unless the child lives more than two miles from the nearest public school and more than one mile from an established public school wagon road." At the head of the educational institutions of the state is the University of Virginia, founded in 1817 and opened in 1825; and among other leading schools may be men-tioned the State Female Normal School, at Farmville; the Virginia Normal and Industrial Institute, at Petersburg; two State Normal and Industrial schools for Women, one at Harrisonburg, and the other at Fredericksburg; the

Virginia Agricultural and Mechanical College and Polytechnic Institute, at Blacksburg; the Virginia Military Institute, at Lexington; and the College of William and Mary, at Williams-burg. Among the institutions of higher learning which are not under state control are: Washington and Lee University (non-sectarian), at Lexington; Hampden Sidney College (Presbyterian), at Hampden-Sidney; Richmond College (Baptist), at Richmond; and Randolph-Macon College (Methodist Episcopal), at Ashland.

Government. Virginia is governed under the constitution adopted in 1902. The right of suffrage belongs to any male citizen of the United States, twenty-one years of age or over, who has been a resident of the state for two years, of the county, city or town for one year, and of the election precinct for thirty days next preceding the election. For registration after 1904, one must have paid all state poll taxes assessed against him for the three years immediately preceding his application, unless he is a veteran of the Civil War; and unless he is physically unable he must "make application" in his own handwriting, without aid, suggestion or memorandum, in the presence of the registration officers, stating therein his name, age, date, and place of birth, residence and occupation at the time and for two years next preceding, whether he has previously voted, and, if so, the state, county and precinct in which he voted last;" and must answer questions relating to his qualifications. EXECUTIVE. The governor, lieutenant-governor, attorney-general, secretary of the commonwealth, treasurer, superintendent of public instruction and commissioner of agriculture, are elected for a term of four years; and each new administration begins on the first of February. The governor must be at least thirty years of age, a resident of the state for five years next preceding his election, and, if of foreign birth, a citizen of the United States for ten years. The governor appoints numerous officers with the consent of the Senate. and his veto power extends to items in appropriation bills. LEGISLATIVE. The General Assembly consists of a Senate and a House of Delegates. Senators and delegates are elected by single districts (into which the state is apportioned once in ten years according to the population), the senators for a term of four years, the delegates for a term of two years. The qualifications for members of either house or of other branches in the general assembly are those required of an elector, and residence in their district. The general assembly meets regularly at Richmond, on the second Wednesday in January of each even number year, but an extra session may be called by the governor on the application of two-thirds of the members of both houses or whenever the governor thinks the necessities of the state require it. The session is limited to 60 days. JUDICIARY. The administration of justice is vested mainly in a supreme court of appeals, circuit courts, city

courts, and courts of justices of the peace. The supreme court of appeals consists of five judges, but any three of them may hold court. They are chosen for a term of twelve years by a joint vote of the Senate and the House of Delegates. The court sits at Richmond, Staunton and Wytheville. The state is divided into thirty judicial circuits. In each of these the circuit judge is chosen for a term of eight years by a joint vote of the Senate and the House of Delegates. In each city having a population of 10,000 or more is a corporation court, the judge of which is chosen for a term of eight years by a joint vote of the Senate and the House of Delegates. Three justices of the peace are elected in each magisterial district for a term of four years. There are also justices of the peace (elected) and police justices (appointed) in cities. In each city having a population of 70,000 or more a special justice of the peace, known as a civil justice, is elected by a joint vote of the Senate and the House of Delegates for a term of four years. Local Government. Each county is divided into magisterial districts varying in number from three to eleven. Each district elects a supervisor for a term of four years, and the district supervisors constitute a county board of supervisors, which levies the county taxes, audits the accounts of the county, and manages all county business. Each county also elects a treasurer, a sheriff, an attorney, one or more commissioners of the revenue, each for a term of four years; and a clerk, who is clerk of the circuit court for a term of eight years. The coroner is appointed by the circuit court for a term of two years. Each magisterial district elects, besides a supervisor and justice of the peace, a constable and an overseer of the poor, each for a term of four years. In accordance with the provisions of the constitution, all communities with a population less than 5,000 are known as towns, and those with a population of 5,000 or more are cities.

History. At Jamestown, in Virginia, in 1607, was planted the first permanent English settlement in North America. One of the leading spirits of the settlement was Capt. John Smith, who became the head of the government, established law and order, and laid the founda-tions of industrial life. Slavery in America had its beginnings in the Virginia colony in 1619. At the close of the colonial period, Virginia was the most populous and the wealthiest of the thirteen colonies. In the protest against the stamp act, and the encroachment of Great Britain, Virginia took the lead, and in the Revolutionary struggle furnished such noted sons as Washington, Jefferson, Patrick Henry, the Lees, and Madison. At Yorktown, Cornwallis's surrender put an end to the contest. In the Civil War, Virginia furnished the great commander, Robert E. Lee, whose skill, chivalry, and noble characteristics are a priceless heritage of the nation. Of the first twenty-one presidents of the United States, seven were Virginians, and President Woodrow Wilson is also a native of the "Old Dominion."

WASHINGTON

WASHINGTON, one of the Pacific States of the United States, lies between latitudes 45° 32′ and 49° N., and longitudes 116° 58′ and 124° 48′ W. It is bounded on the N. by British Columbia, on the E. by Idaho, on the S. by Oregon, and on the W. by the Pacific Ocean. It has an extreme length from east to west of 360 m., and an extreme width from north to south of 240 miles. In gross area the state ranks nineteenth among the states of the Union (69,127 sq. m., of which 2,291 sq. m. represent water surface).

Coast. The coast-lines of the Pacific and of Juan de Fuca Strait are remarkably even. Columbia River Bay, Willapa Bay, and Grays Harbor are the principal indentations. On Puget Sound and the Strait of Juan de Fuca are numerous good harbors, the principal ones being Olympia, Tacoma, Seattle, Everett, Port Townsend, Anacortes, Bellingham, and Port Angeles.

Relief. Washington is divided from north to south by the Cascade Mountains, which lie at a distance of 120 to 160 m. east of the Pacific Ocean. On the southern border, near the Oregon boundary, this mountain range occupies a tract from 40 to 50 m. in width, and to the northward it widens to 100 m. or more. The general height of the ridges and peaks is about 8,000 ft. above the sea, but there are a number

of snow-capped mountains (extinct volcanoes) which are more than 10,000 ft. high; among these are Mt. Tacoma, or Ranier, (14,363 ft.), Mt. Adams (12,470 ft.), Mt. Baker (10,827 ft.), Glacier Peak (10,436 ft.), and Mt. St. Helens (10,260 ft.). Numerous glaciers are found in this range, and both slopes are cut by deep valleys. The eastern face of the mountains region and desert; on the west the descent is to a land of abundant rainfall and luxuriant vegetation. The range is pierced near its middle by the Columbia River, whose rapids and cascades gave the range its name. The eastern half of the state is occupied in its northern portion by outlying ranges, ridges, and foothills of the Rocky Mountain System. This mountainous section is divided by the Spokane and Columbia Rivers from the Columbia Plateau, which has a general elevation of 1,000 to 2,000 ft. above sea level. In some parts the plateau is marked by numerous coulees or abandoned river channels, some of them 500 to 600 ft. deep, and with very precipitous walls. There are also deep canyons which have been cut by the rivers in their present courses, especially the Snake River and its tributaries. The southeastern corner of the state is occupied by the Blue Mountains which rise about 7,000 ft. above sea level, and are cut by deep canyons. West of the Cascade Mountains Washington is a region of fertile valleys, mountain ranges and peaks, abundant moisture, and heavy forests. Along the Pacific Coast, the Coast Range extends in broken masses from the southern boundary to the Strait of Juan de Fuca. Its ranges are not over 1,500 ft. in height in the southern part of the state, but they rise to the northward and culminate in Mt. Olympus (8.150 ft.).

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Drainage. Eastern Washington and the southern part of the Puget Sound Basin are drained by the Columbia River and its tributaries. This river enters the northeastern corner of the state from Canada, traverses it in a winding course from north to south, forms the greater portion of its southern boundary, and discharges into the Pacific Ocean. It affords ship navigation nearly to the Cascades and, throughout the state, this stream and its chief tributaries. the Snake and the Clarke, afford steamboat navigation, with occasional interruption from rapids. Other principal rivers of eastern Washington are the Spokane, the Okanogan, the Yakima, and the Palouse. A portion of the Puget Sound Basin and a portion of the Coast Range are drained by the Chehalis River. The western slope of the Cascades, most of the eastern slope of the Olympics, and the northern portion of the Puget Sound Basin are drained by a great number of small rivers into the Puget Sound. This great inland sea is an arm of the Pacific Ocean which communicates with Admiral Inlet, Hoods Inlet and the Strait of Juan de Fuca. It affords great facilities for navigation and its shores are remarkably bold and picturesque. The western slope of the Coast Range is drained by several small rivers into the Pacific. On the Cascade Mountains are a number of lakes of glacial origin, the largest of which is Lake Chelan in Chelan County. There are several alkaline lakes or chains of such lakes in the coulees on the Columbia Plateau.

Climate. In western Washington, the ocean influences the temperature and the climate is The mean temperature for July is about 60°, for January 40°, and for the entire year 50° F. In the Puget Sound Basin, cold east winds occasionally cause the winter temperature to fall below zero. In eastern Washington the climate is marked by extremes of temperature, ranging from -30° in winter to 110° and even higher in summer. In the southeastern counties the winters are generally mild and the summers hot. The annual precipitation in western Washington is from 70 to 125 inches. Three-fourths of the rain in this section falls during the wet season from November to April inclusive. There is a heavy snowfall in winter on the mountains. In eastern Washington, the rainfall is, over large areas, reduced to 10 and 15 in., and irrigation is a requisite for agriculture. The average annual snowfall in this part of the state is 40 in. or more. The prevailing winds along the coast are from the west or south; in the Puget Sound Basin from the south; and in eastern Washing-



ton from the southwest, except in the Yakima and Wenatchee valleys. Tornadoes are unknown

in the state.

Agriculture. The soils of esatern Washington are chiefly volcanic; those of western Washington are chiefly glacial. The soils of the western coastal portion of the state at the lower elevations consist of silty loams and silty clay loams. The region is characterized by numerous alluvial valleys, where loams and silty clays predominate. The greater part of the agriculture of the region is confined to the alluvial valleys. The Columbia River Basin and the southern part of the Puget Sound Basin are occupied by similar soils. In the northern portion of the Puget Sound Basin the level benches and rolling uplands are occupied by a great variety of gravelly, and sandy loam soil. Alluvial bottoms and partially filled lake basins are numerous in this region. The intermountain valleys in the north-central and northeastern portions of the state consist chiefly of glacial deposits. The soil of the Columbia Plateau is principally volcanic ash and decomposed lava. The total area included in irrigation projects, completed or under way, is 817,032 acres. The leading crops (in the order of their importance as judged by value) are: wheat, hay and forage, oats, barley, potatoes, hops, and corn. principal wheat producing region is the southeastern portion of the state. The fruit-raising area increases from year to year, and apples, plums, prunes, cherries, and small fruits are extensively grown. The growing of flower bulbs is an increasing industry; the narcissus and tulip bulbs, propagated near Bellingham, flower in Washington, D. C. earlier than bulbs of the same varieties imported from Holland. Floriculture is a growing industry in Washington, and live stock and dairy products are important factors in its agricultural wealth.

Forests. Federal forest reserves are included in ten National Parks; the Chelan, with an area of nearly two and one-half million acres, is the The Puget Sound Basin and the neighboring slopes of the Cascade and Olympic Mountains are noted for their forests of fir and pine. The eastern slopes of the Cascades and most of the Okanogan highlands are clothed with light forests consisting chiefly of yellow pine. Columbia Plateau is for the most part treeless.

The wonderful salt and fresh Fisheries. waterways of Washington abound in valuable fishing resources. The catch of salmon is particularly important. In the streams trout are very numerous, and there is an abundant supply of herring as well as oulachan, or candle-fish. Oysters, rockfish, turbot, and sole are among

other fishery products of the state.

Minerals. The mineral wealth of Washington is large, but its resources are not yet fully developed. The most important of its mineral products is coal, deposits of which are found in no other Pacific Coast State. Next in importance to coal are the clay products. Gold, silver,

and copper are mined in considerable quantities, and lead and zinc are worked. The quarries yield granite, sandstone, marble, and limestone. Antimony, arsenic, molybdenum, tungsten, and

platinum are found.

Manufactures. The growth in manufacturing in Washington is the direct result of the development of the state's natural resources. The vast forests of Washington furnish lumber; its streams and bays support the important salmon canning industry; and the extensive grazing ranches and the luxuriant growth of bunch-grass encourage stock-raising, upon which the meat packing and the butter, cheese, and condensed milk industries depend. The most important industries (arranged in the order of the value of products) are: lumber and timber products, flour-mill and grist-mill products, slaughtering and meat packing, and canning

and preserving. Education.

Education is free, and compulsory for children from seven to fifteen years of age. The public school system is administered by a state superintendent of public instruction, a state board of education, regents or trustees of higher institutions of learning, a superintendent of the common schools, a board of education in each county, and a board of directors in each school district. The state superintendent is elected for a term of four years; each county superintendent is elected for a term of two years. Washington has three state normal schools—at Cheney, Bellingham, and Ellensburg, respectively. The State College of Washington, at Pullman, for instruction in agriculture, mechanic arts, and natural sciences. includes an agricultural college, an experiment station, and a school of science. The University of Washington, at Seattle, embraces a college of liberal arts, a college of engineering, and schools of law, forestry, mines, and pharmacy. Institutions of higher learning, maintained and controlled by their respective denominations, are: Whitman College (Congregational), at Walla Walla; Gonzago College (Roman Catholic), at Spokane; Whitworth College (Presbyterian), at Tacoma; and the University of Puget Sound (Methodist Episcopal), at Tacoma.

Government. Washington is governed under its original constitution adopted on October 1, 1889, and its amendments. Suffrage is conferred upon all adult citizens of the United States (including women) who have lived in the state one year, in the county ninety days, and in the city, town, ward, or precinct thirty days immediately preceding election, and who are able to read and speak the English language. Excluded from the suffrage are Indians not taxed, idiots, insane persons, and convicts. General elections are held biennially, in even number years, on the first Tuesday after the first Monday in November. EXECUTIVE. The chief executive officers are the governor, lieutenant-governor, secretary of state, treasurer, auditor, attorneygeneral, superintendent of public instruction.

and commissioner of public lands, all of whom are elected for a term of four years; each new administration begins on the second Monday in January. The governor may veto any bill or any item or items of any bill, but his veto may be overridden by a two-thirds vote of the members present in each house. LEGISLATIVE. The legislature consists of a Senate and House of Representatives. Senators are elected by single districts for a term of four years, a portion retiring every two years. Representatives are elected from a district for a term of two years. Regular sessions of the legislature are held biennially in Olympia (in odd number years), and begin on the second Monday in January. JUDICIARY. Justice is administered principally by a supreme court, superior courts, and justices of the peace. The supreme court consists of nine judges elected for a term of six years, one of those whose term next expires being chosen chief justice. Judges of the superior court (one or more for each county, or one for two or more counties (jointly) are elected for a term of four years. Justices of the peace (one or more in each election precinct) are elected for a term of two years. LOCAL GOVERNMENT. The government of each county is vested principally in a board of three commissioners elected by a county at large, for terms of two or four

years. The other county officers are a clerk, a treasurer, an auditor, an assessor, an attorney, an engineer, a sheriff, a coroner, and a superintendent of public schools—each elected for a term of two years. Township government is in force only when adopted by a particular county at a county election. Each township is governed by the electors assembled annually in town meeting and by three supervisors, a clerk, a treasurer, an assessor, a justice of the peace, a constable, and an overseer of highways for each road district. Cities are divided into three classes: the first class including those having a population of 20,000 or more; the second class those having a population between 10,000 and 20,000; the third class those having a population between 1,500 and 10,000.

between 1,500 and 10,000.

History. The Strait of Juan de Fuca was discovered in 1592, and explored in 1789. The mouth of the Columbia River was explored by the American Captain Gray in 1792, and further explorations were conducted by Lewis and Clark in 1805. A settlement at the mouth of the Columbia was founded by John Jacob Astor in 1811. The boundary question was settled with Great Britain in 1846. Washington formed part of the territory of Oregon; was organized as a territory in 1853; and was admitted to the

Union in 1889.

WEST VIRGINIA

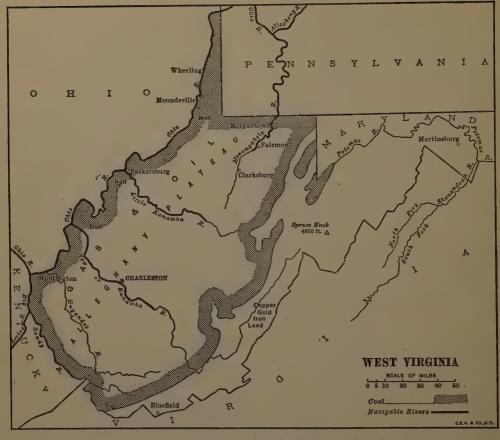
WEST VIRGINIA, the northwesternmost of the South Atlantic group of states of the Union, lies between latitudes 37° 10′ and 40° 40′ N. and longitudes 77° 40′ and 82° 41′ W. It is bounded on the NW. by Ohio; on the N. by Pennsylvania and Maryland; on the E. and SE. by Pennsylvania, Maryland and Virginia; and on the SW. by Virginia and Kentucky. Its greatest length from N. to S. is about 240 m., and its greatest breadth from E. to W., is about 265 miles. In size, West Virginia ranks fortieth among the states of the Union; its gross area being 24,170 sq. m., of which 148 sq. m. represent water surface.

Relief. West Virginia is the most irregular in form of all the states of the American Union; nearly all the boundary lines follow the courses of rivers or crests of mountain ridges. To the northward a narrow projection between the Ohio River and Pennsylvania is known as the Panhandle. The state is divided into two distinct physiographic provinces known as the "ridge and valley" belt, and the Allegheny Plateau province. About one-third of the state in the east is traversed from NE. to SW. by the western ridges of the Appalachian system. These ridges are generally parallel, varying in height from 2,500 to 3,000 ft., with numerous summits attaining elevations of 4,000 ft. and more. The culminating point in the state is Spruce Knob (4,860 ft.); other notable summits are: High Knob (4,710 ft.), Big Spruce Knob (4,652 ft.), and Cunningbam Knob (4,485 ft.).

The mountainsides are fertile, generally wooded, and present wild, picturesque, and occasionally sublime scenery. The valleys between the ridges, while difficult of access, furnish broad areas of valuable agricultural land. West of the mountain belt is the Alleghany Plateau, comprising about two-thirds of the area of the state, and forming a part of the Great Appalachian Plateau Province which extends from New York to Alabama. This region is much dissected into gorges; canyons, and hills by a network of streams, and has a general elevation of 1,000 to 2,500 ft., but slopes westward to the Ohio River, where the hills attain elevations of 500 to 800 feet.

Drainage. In the NE. the streams are tributary to the Potomac River, but west of the main Alleghany ridge, the entire state is drained to the Ohio River. The Shenandoah River flows through a small section of the state in the N. E., and the Potomac rises by several forks in the N. The principal tributaries of the Ohio are: the Big Sandy, Guyandotte, New (Great Kanawha), the Little Kanawha and Monongahela, streams that are navigable to a considerable extent, most of them having been artificially improved.

Climate. As the state has a range of over 4,000 ft. in altitude, its climate varies considerably in different localities. Mean annual temperatures range from 48°-50° F. along the southeastern boundary, to 56° in the southwestern section and 43° in the northern Panhandle. The



highest recorded temperature for the state is 107°, the lowest, -35° F. Temperatures above 100° and below -15° are rare. In the eastern or mountainous section the annual precipitation is over 50 in.; in other sections of the state it varies from 35 to 40 in. Snows are frequent during the winter, and sometimes deep in the higher plateau and mountain districts. The prevailing winds are from south to west.

Agriculture. West Virginia is primarily agricultural; the valleys, the hillsides, and the ridges are generally fertile, and the mountain glades afford excellent pasture land. The Panhandle is an extremely rich farming country, and the valleys of the SE. abound in rich bluegrass tracts. About two-thirds of the state's entire land area is in farms. Farm acreage decreased slightly in the decade 1900–1910, but the number of farms increased, and the total value of farm property increased nearly 55 per cent in the same period. The leading crops of the state (in the order of their importance as judged by total value) are: corn, hay and forage, wheat, potatoes, tobacco and oats. Live

stock, dairying and poultry interests are extensive and steadily increasing.

Forests. The lumber and timber products are among the most valuable assets of the state, a large part of which is still densely covered with forests of oak, hemlock, spruce, ash, tulip, walnut, poplar, cherry, locust, chestnut and other timber trees.

Minerals. The West Virginia coal field covers more than 17,000 sq. m., and bituminous coal has been found in 51 of the 55 counties. The coal supply is varied and includes excellent grades of splint coal and (except that in Kentucky) the only considerable supply of cannel coal in the United States. Besides the great resources in coal, Virginia has other extensive mining and quarrying industries; petroleum and natural gas are among the most important products of the state. Iron, sandstone, limestone, slate and clays are among the mineral products of commercial value.

Manufactures. West Virginia is in general more a mining than a manufacturing state, but it is, nevertheless, well adapted to the develop-

ment of manufactures. The state is fairly well supplied with railway transportation facilities; the Ohio River, which is of decided commercial importance, forms the greater part of the western boundary of the state, affording cheap and adequate facilities, and many of the numerous mountain streams are utilized for rafting lumber. The vast deposits of coal, the abundance of petroleum and natural gas, the extensive timber areas, and the excellent water-power facilities which are being rapidly developed, are directly responsible for much of the growth in manufactures, which has more than kept pace with the growth of population. The most important of the state's industries (judged by value of product) are: the manufactures of lumber and timber, iron and steel, leather, glass, flour-mill and grist-mill products, and coke.

Education. A law enacted in 1908 requires that the children between eight and fifteen years of age shall attend school twenty-four weeks each year, provided the public school in their district is in session that length of time. Each magisterial district constitutes a school district; for each school district there is a board of education consisting of a president and two commissioners, each elected for a term of four years, and one commissioner for two years. county supervision of public schools is vested in a county superintendent who is elected for a term of four years. The state supervision is vested in a state superintendent, who is elected for four years. A state board of education constitutes a state board of examiners (for special primary, high school, and professional certificates), and prescribes the course of study. The state maintains six normal schools for whites (at Huntington, Fairmont, West Liberty, Glenville, Shepherdstown and Athens), and two for negroes (at Institute and at Bluefield). At the head of the educational system is the West Virginia University, at Morgantown. principal institutions of higher education not under state control are: Bethany College (Christian), at Bethany; Morris Harvey College (Methodist Episcopal), at Barboursville; West Virginia Wesleyan College (Methodist Episcopal), at Buckhannon; and Davis and Elkins College (Presbyterian), at Elkins.

Government. West Virginia is governed under a constitution adopted in 1872 with subsequent amendments. All male citizens above twenty-one years of age have the right of suffrage, subject to a residence of one year in the state, and sixty days in the county in which they vote. Paupers, insane, and those convicted of treason, felony or bribery in a previous election are barred "while the disability continues," and no person in the military or naval service of the United States is deemed a resident of the state by reason of being stationed therein. EXECUTIVE. The executive department consistent of public schools, auditor, treasurer and attorney-general, all elected by the people at

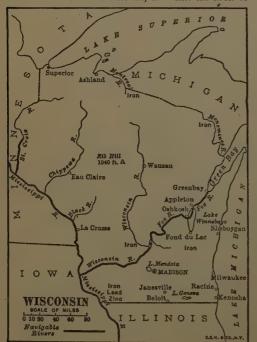
the time of the presidential election, and serving for four years from the fourth of March following. The governor must have been a citizen for five years preceding this election, must have attained the age of thirty years, and is ineligible for reelection during the four years succeeding the expiration of his term. In case of the death or other disability of the governor, the president of the Senate acts as governor, and in case of his incapability, the speaker of the House of Delegates; and these two failing, the legislature on joint ballot elects an acting governor. A new election must be called to fill the vacancy unless the unexpired term is less than one year. The governor appoints, subject to the consent of a majority of the members of the Senate, all officers whose appointment or election is not otherwise provided for. If a vacancy occurs in the court of appeals, or in the circuit court, the governor appoints until the next general election; or, if the unexpired term is less than two years, until the end of the term.
The governor may convene the legislature in extraordinary session when he deems it necessary. He may veto a bill, or in case of an appropriation bill, the separate items, but this veto may be overridden by a majority of the total membership of each house. Any bill not returned with objections within five days after presentation becomes a law. An appropriation bill cannot be vetoed after the legislature adjourns. Legislative. The legislature, consisting of the Senate and the House of Delegates, meets at Charleston, on the first Wednesday in January of the odd years, sessions being limited to 45 days. One-half the membership retires biennially. A senator must be at least twentyfive years of age, and must have been a citizen of the state for five years, and a resident of the district for one year preceding his election. The Senate elects a president, confirms or rejects the nominations of the governor, and acts as a court of impeachment for the trial of public officers, besides sharing in legislative functions. The House of Delegates is composed of eightysix members, of whom each county choses at least one. A delegate must be a citizen and have resided one year in the county from which he is chosen. Besides its legislative functions, the House prepares articles of impeachment and prosecutes the proceedings before the Senate. No person holding a lucrative office under the state or the United States, no salaried officer of a railroad company, and no officer of any court is eligible for membership in either house. The length of the legislative session is forty-five days, but it may be extended by a vote of two-thirds of the members elected to each house. No act takes effect until ninety days after its passage, unless two-thirds of the members of each house specifically order otherwise. JUDICIARY. dicial power is vested in a Supreme court of appeals, circuit courts, such inferior courts as may be established, county courts, and justices of the peace. The supreme court of appeal

consists of five judges, elected for terms of twelve years. It holds three terms annually-one at Wheeling, one at Charleston, and one at Charles Town. Nineteen judges, elected for terms of eight years in eighteen circuits, compose the circuit court. In order to relieve the circuit court judges, the legislature has established inferior courts in nine counties of the state. One or two justices of the peace (dependent on population) are elected from each magisterial The county LOCAL GOVERNMENT. district. is the unit of local government. The county court has the police and fiscal authority. Other officers are the clerk of the county court, the sheriff, who also acts as tax-collector and treasurer, the prosecuting attorney, one or two assessors, the surveyor of lands, and the superintendent of free schools, all elected for the term of four years. In addition, there are boards appointed or elected by various authorities and charged with specific duties.

History. West Virginia was a part of Virginia until the beginning of the secession movement in 1861. The separation of these states had, however, been agitated before the adoption of the Federal Constituion. West Virginia was settled largely by immigrants who entered by way of Pennsylvania, and the population included Germans, Protestant Irish, and people from the states farther north. Slavery was rendered unprofitable by the difficulties in agriculture caused by the rugged nature of the country, and the climate. Social conditions were, therefore, entirely unlike those of the eastern part of the state, and little sympathy existed between the two sections. At the outbreak of the Civil War, the inhabitants of the northern and western counties remained loyal to the federal government, and in 1863 Virginia was admitted to the Union as a separate

WISCONSIN

WISCONSIN, one of the East North-Central States of the Union, lies between latitudes 42° 30′ and 47° 4′ N., and longitudes 86° 45′ and 92° 54′ W. It is bounded on the N. by Lake Superior and Michigan; on the E. by Michigan and Lake Michigan; on the S. by Illinois; and on the W. by Iowa and Minnesota. Wisconsin is about 300 m. in length from north to south, and about 250 m. in width, and has an area of



56,066 sq. m., of which 810 sq. m. are water surface. In size it ranks twenty-fifth among the states of the Union.

Relief. The state occupies a central position in the extreme northern portion of the low plateau which constitutes the northern part of the Mississippi Valley. The surface is generally rolling and undulating, with an average elevation of about 1,000 ft. above sea level Although without great relief, the surface is far from level; there are numerous small, nearly level plains and there is much rough country. The lowest elevations in the state are along the lake shores and in the central part of the state, where the altitudes average 580-600 ft. above sea level. The Fox-Wisconsin depression which extends across the state from Green Bay to the mouth of the Wisconsin River is continuous, except for a mile and a half over the low divide at Portage. In early times this depression formed the route of travel and commerce between the Great Lakes and the Mississippi. The Penokee Range in the northern part of the state contains a number of elevations over 1,500 ft. in height. Rib Hill (over 1,900 ft.) in Marathon County, is probably the highest point in the state. From the northern highlands two ridges of land extend southward into the central portion of the state, dividing the greater part of its area into two The westernmost of main drainage basins. these ridges separates the valleys of the Mississippi and St. Croix Rivers from that of the Wisconsin River. The eastern ridge separates the Wisconsin River basin from the Fox River valley and the streams flowing into Lake Michigan. A line of low elevations, parallel with and about 15 m. south of the Wisconsin River, runs between Madison and the Mississippi. Another ridge, known as the Winnebago escarpment, beginning at Door County peninsula, extends southward along the eastern shore of

Lake Winnebago and gradually subsides in the southern part of the state. The surface topography of the southwestern portion of the state adjacent to the Mississippi River is somewhat

dissected and rough.

Drainage. There are no large streams flowing into Lake Superior, and very little drainage in that direction. The main part of the state is drained by the Mississippi and its tributaries. The St. Croix, the Chippewa, and the Black, join the Mississippi north of the mouth of the Wisconsin. The Wisconsin rises on the upper Michigan border and, flowing south and west, enters the Mississippi near Prairie du Chien. is navigable as far as Portage, some 200 m. above its mouth. The Fox River, with a course of more than 250 m., rises in the south-central portion of the state, flows north and east through Lake Winnebago and thence into Green Bay. Besides the Fox, several smaller streams drain into Lake Michigan. The southern part of the state is drained by a number of streams, which eventually find their way through other rivers into the Mississippi. The rivers of Wisconsin provide numerous and valuable water-powers, which have greatly contributed to the industrial development of the state. In Wisconsin are more than 2,500 lakes, most of them lying in the northern and eastern parts of the state. Of these the largest is Lake Winnebago, with an extreme length of 30 m., and a breadth of 10 m., one of the largest bodies of water lying wholly within any state in the Union. Many of the lakes in the southern and eastern parts of the state are famous summer resorts, notably Lake Geneva, Green Lake, the beautiful "four lakes" near Madison, and the lakes in Waukesha County.

Climate. The climate of the northern and eastern sections is much modified by the influence of Lakes Michigan and Superior, which cover an area of over 60,000 sq. miles. climate of the whole state, however, is affected more or less by the storms which move eastward along the Canadian border, and also by those which move northward up the Mississippi valley. The winters, especially in the central and northwestern sections, are long and severe and the summers in the central and southwestern sections are very warm; but the air is so dry that cold and heat are less felt here than in more humid climates with less extreme temperatures. The mean annual temperature for the state is 44° F.; the mean for July is 70° and for February, 15° F. The average rainfall is about 32 in., well distributed over all sections of the state. The annual snowfall is 53 in. in the northern section, 36 in. in the middle section, and 40 in. in the southern section. All parts of the state are subject to tornadoes, but they are more frequent

in the western section.

Agriculture. There is great diversity in the soils of the state. In much of eastern and central Wisconsin the soils are suited to the production of grass and grain, and in those regions dairying is an important industry. Corn, oats,

barley, and rye are the principal grain crops in central Wisconsin. In addition to the grass and grain, potatoes are extensively grown, and clover-seed constitutes an important crop. In southern Wisconsin, binder tobacco is profitably grown. Along the southern shore of Lake Superior much attention is being given to apple orchards, and considerable tracts of swampy and mucky soils are being drained for the production of cranberries and other special crops. In southwestern Wisconsin the soil constitutes good general farming lands, and some tobacco is grown. The leading crops (in the order of their importance as judged by value) are: hay and forage, oats, corn, barley, potatoes, tobacco, rye, and wheat. The production of orchard fruits is increasing, as is also that of grapes. The raising of live stock, particularly of dairy cows, is an important industry.

Forests. Originally the greater part of what is now Wisconsin was covered with forests, but in the south and west there were quite large areas of rolling prairie land. Along the shore of Lake Michigan and extending inland a quarter of the distance across the state and northward through the Fox River valley, there is a heavy belt of oak, maple, birch, ash, hickory, elm, and some pine. From the northern shores of Green Bay there stretch to the north and west numerous forests of pines, hemlocks, and spruce. Much of the marketable timber has been cut, but there are still quite extensive woodland areas.

Fisheries. Wisconsin has valuable fisheries. The catch of lake trout, herring, and whitefish being (in the order given) the most valuable. The state board of commissioners of fisheries distributes millions of eggs and fingerling. There are state hatcheries at Madison, Bayfield, Oshkosh, Minocqua, Delafield, and Wild Rose.

Minerals. Wisconsin has considerable mineral wealth. Iron is found in the Huronean rocks of the northern part of the state, and near Baraboo, and iron ore is mined at Iron Ridge and Mayville in Dodge County. The Trenton-Galena limestone in the southwestern part of the state has been mined for lead and zinc since the earliest settlement by the French. Building stone of good quality is plentiful. Natural rock, cement, graphite, and petroleum, are also produced. Fresh-water pearls are found in many of the streams. Wisconsin ranks among the leading states in the value of mineral waters sold.

Manufactures. While Wisconsin is largely an agricultural state, the advance in the relative importance of its manufacturing industries as measured by value of its products has been marked. The most important industries (arranged in the order of value of products) are the manufacture of lumber and timber products; foundry and machine-shop products; butter, cheese, and condensed milk; leather, tanned, curried, and finished; malt and malt liquors; flour-mill and grist-mill products; slaughtering, and meat packing; and paper and wood-pulp.

Education. Wisconsin has an excellent free public school system under the supervision of a state superintendent of public instruction, who is chosen by popular vote for a term of four A graded system of instruction is provided in country, district, and city schools, high schools and normal schools and the University of Wisconsin. School attendance, for twentyfour weeks per annum in the country and thirty-two weeks in cities, is compulsory for children between seven and fourteen years of age who do not live more than two miles from school by the nearest traveled public highway. Under state control there is a system of teachers' and farmers' institutes. In addition to the state normal schools and the university, the state maintains at Platteville a school of mines. Among the large number of private educational institutions, including schools of collegiate rank, are Beloit College (non-sectarian), at Beloit; Carroll College (Presbyterian), at Waukesha; Lawrence College (Methodist Episcopal), at Appleton; Concordia College (Lutheran), Marquette University (Roman Catholic), and Milwaukee-Downer College (non-sectarian) for women, all at Milwaukee; Milton College (Seventh Day Adventist), at Milton; Northwestern University (Lutheran), at Watertown; Ripon College (non-sectarian), at Ripon; Wayland University (Baptist, co-educational), at Beaver Dam; and many private academies and trade or technical schools, and six industrial schools for Indians.

The original constitution of Government. the state, adopted in 1848 and amended many times since then, is still in force. Wisconsin has universal suffrage for males over twenty-one years of age. There is no property or educational qualification. EXECUTIVE. The executive power is vested in a governor and a lieutenantgovernor elected for two years. Candidates for either office must be citizens of the United States, and qualified electors of the state. The administrative officers, a secretary of state, a treasurer, and an attorney-general, are elected for two years. A bill vetoed by the governor becomes a law if it is approved by two-thirds of the members in each house. The governor has power to grant reprieves, commutations, and pardons, except for treason, and in cases of impeachment. The lieutenant-governor acts as president of the Senate, with a casting vote only. The secretary of state is ex officio auditor. The legislature consists of a LEGISLATIVE. Senate and an Assembly. It meets at Madison biennially (odd number years), and the length of session is unlimited by law. The number of assemblymen cannot be less than fifty-four nor more than one-hundred, and the number of senators must be not more than one-third nor less than one-fourth the number of assembly-men. Those eligible to the legislature are all males who are qualified electors in the district to be represented, and who have resided one year within the state. Wisconsin delegates important legislative power to three commissions, each of which is composed of three members: the railroad commission fixes rates of railroads and public utilities; the tax commission assesses and collects all taxes including the new progressive income tax; the industrial commission administers all laws relating to factory inspection, women's and children's labor organizations, compensations, truancy, free employment offices, minimum wages, marketing of farm products, etc. The latter commission has power to enforce rules of its own making regarding machinery, sanitation, and ventilation. JUDICIARY. The judicial power of the state is vested in a supreme court of seven members, elected for a term of ten years, the senior justice being the chief justice; circuit courts of one judge each, except in the second circuit (including Milwaukee) in which the number is greater; probate judges, one elected in each county, except where the legislature confers probate powers on inferior courts; and in towns, cities, and villages, justices of the peace, elected for two years. LOCAL GOVERNMENT. Wisconsin has the mixed or township-county system of local government. Town officers, excepting justices of the peace, are elected for one year only, except that in a county having a population of 100,000 or more (Milwaukee County) town meetings are biennial, and all officers are elected for two years. The chairmen of the several town boards of supervisors, with the supervisors of each ward of a city and the supervisors of each village in the county, constitute the county board of special supervisors, and each county elects biennially at the general election in November, a clerk, a treasurer, a sheriff, a coroner, a clerk of the circuit, a district-attorney, a register of deeds, and a surveyor. The county board represents the county in all its business relations. City officers are the mayor, members of the board of aldermen, and other administrative officers and boards. The mayor, aldermen, treasurer, comp-troller, justices of the peace, and supervisors, must be elected by the people; but the other officers are filled as the council of each city directs. An act of 1909 provides for the adoption of government by commission in any city of the second, third, or fourth class which votes for this form of government at an election called by a petition signed by twenty-five per cent of the voters at the preceding election for mayor. **History.** Wisconsin was opened to wide

History. Wisconsin was opened to wide settlement by French explorers, missionaries, and traders. Among the Frenchmen whose names are associated with its early history are those of Jean Nicollet, Sieur de Radisson, Sieur des Groseilliers, Jacques Marquette, Louis Joliet, René Ménard, Claude Allcuez, La Salle, Henri de Tonty, Duluth, and Louis Hennepin. The French claimed, and to a greater or less extent occupied the territory from 1634 until the close of the Seven Years' War in 1760, when it passed to Great Britain. British occupation was brief, and in 1783 it became a part of the

United States, and was included in 1787 in the Northwest Territory; afterward in Indian Territory; in 1809 in Illinois Territory; and in

1818 in Michigan Territory. Wisconsin Territory was organized in 1836 and was admitted as a state in 1848.

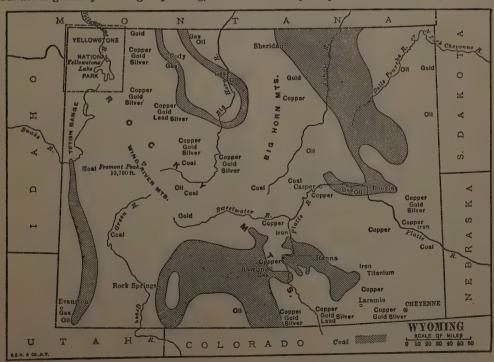
WYOMING

WYOMING, one of the Mountain States of the United States, lies between latitudes 41° and 45° N., and longitudes 104° 3′ and 111° 6′ W. It is bounded on the N. by Montana; on the E. by South Dakota and Nebraska; on the S. by Colorado and Utah; and on the W. by Utah, Idaho, and Montana. The state has an extreme length from east to west of about 380 m., and an extreme width from north to south of 276 miles. In gross area it ranks eighth among the states of the Union (97,914 sq. m., of which 320 sq. m.

represent water surface).

Relief. The Black Hills of South Dakota extend across the boundary and occupy a small area in the extreme northeastern part of Wyoming. Aside from this Black Hill country, eastern Wyoming is a region of lofty plains, part of the Great Plains Province of the United States. The Great Plains also occupy large areas of the southern and southwestern portions of the state. The plains of the eastern half of the state rise from altitudes of 4,000 ft. along the eastern blope of the Rocky Mountains. The surface is generally flat or gently rolling, barren

of tree growth, but covered with nutritious grasses. Here and there erosion buttes and mesas rise above the general level of the country. and add to the interest and picturesqueness of the region. Ranges of the Rocky Mountain system, entering the state from the northwest, cross it in a southeasterly direction. The Big Horn Mountains constitute the most easterly or Front Range of the system and extend for about 180 m. southward into Natrona County. This range contains many Alpine peaks from 8,000 to 10,000 ft. in height, many mountain lakes and waterfalls, and a number of small glaciers, especially about the base of Cloud Peak (13,165 ft.), its highest summit. In the central and south-central parts of the state in Fremont, Natrona, Sweetwater, and Carbon Counties, occurs a break in the continuity of the Rocky Mountains, the ranges to the northwest being known as the Northern Rockies, those to the south as the Southern Rockies. Here the Great Plains are occupied by many minor mountain groups, volcanic buttes, and lava flows. In this portion of the state is found the broad and relatively low pass which is utilized by the Union



Pacific Railway. The main chain of the Rocky Mountains, known in its central and dominant mass as the Wind River Range, extends in a northwest-southeast direction through a large part of the state and constitutes the waterparting ("Continental Divide") between the streams flowing to the Atlantic and Pacific Basins. The highest points in the state, Gannett Peak (13,775 ft.) and Fremont (13,790 ft.), are found in this range. The extreme northwestern part of the state is occupied by the Yellowstone National Park, about 75 m. in diameter. It has a general elevation of more than 6,000 ft. above sea level, and rises in snow-capped mountains to elevations of 10,000 and 14,000 feet. It is famed for its mountains, its canyons, its geysers and for its wonderful scenery. Just south of Yellowstone Park the Teton Mountains, rising from the low basin of Jackson's Hole to elevations of 10,000 and 11,000 ft., form a striking

Drainage. The greater part of the state is drained by branches of the Missouri River, the most important being the Yellowstone, Big Horn, and Powder Rivers, flowing north; and the Cheyenne and North Platte Rivers, flowing east. Southwest of the center of the state is an area with no outward drainage, and the streams empty into desert lakes, or are lost by evaporation or seepage. West of the "Continental Divide" the state is drained principally by the Green River, flowing southward to the Colorado, and the Snake River, flowing northward and northwestward to the Columbia River.

Climate. The climate of Wyoming is dry and healthful in nearly all sections of the state, but extremes of both summer and winter temperatures are marked. In the lower Big Hovelley summer temperatures rise to 95° and 100° F., but at heights of from 6,000 to 7,000 ft. on neighboring ranges, summer temperature seldom rises above 90°, and frosts may occur at any time. Elevations under 6,000 ft. have a mean annual temperature of about 45° F. Winter temperatures as low as -51° have been recorded. Cheyenne, in the southeast, has a winter mean of 27° and a summer mean of 65° F. Except in a few counties in the northeastern part of the state, the rainfall is not sufficient for growing crops without irrigation, the normal annual precipitation ranging from 10 to 15 inches. Irrigation is practised in all sections of the state where water is available.

Agriculture. The lack of water, rather than poverty of soil, renders most of the plains region fit for grazing only. In the mountains ruggedness combines with thin and scattered soil to make these districts of small agricultural value. Of the state's entire land area only slightly more than one-eighth is in farms. On the Great Plains are found great cattle ranges and the live stock interests of the state are extensive. Wyoming ranks first among the states in the number of sheep and the production of wool. The general character of Wyoming agriculture is indicated

by the fact that somewhat more than one-fourth (27.4 per cent) of the total value of crops is contributed by the cereals and about three-fifths (60.6 per cent) by hay and forage; the remainder, representing in value 12 per cent of the total, consists mostly of potatoes and other vegetables. The leading crops of the state (in the order of their importance as judged by value) are; hay and forage, oats, wheat, potatoes, barley, and corn. It should be noted, however, that vegetables, exclusive of potatoes, sweet potatoes, and yams, are more important than corn or barley.

Forests. Forest growth in Wyoming is limited to the highest ranges, the most important forests being in the Black Hills region in the northeast, on the lower slopes of the Big Horn Mountains, and on the Rocky Mountain ranges of the northwestern part of the state, including Yellowstone National Park. The yellow pine is the most important tree in the Big Horn, and small lodge-pole pine makes up the greater part of the northwestern forests. The Douglas spruce and Rocky Mountain white pine are common in the forests of the Medicine Bow Mountains, from which much of the native lumber used in the southern part of the state is secured. Occasional cottonwoods along the streams are the only trees upon the plains.

Minerals. The prosperity of Wyoming is largely dependent on its mineral resources. It is one of the leading states in the value of its output of bituminous coal. In nearly every county there are veins of iron ore of varying extent and quality, the most important being at Hartville, in Laramie County, Iron Mountain, in Laramie County, and the seminole and Rawlins, in Carbon County. Other mineral products of the state are copper, gold, asbestos, soda, silver, lead, gypsum, and stone. The mining product next in value to coal is copper, taken chiefly in Carbon County. There are valuable deposits of petroleum and natural gas in various sections of the state. Sulphur has been found near Cody and Thermopolis. In addition to the hot springs of the Yellowstone region, mention should be made of the large hot springs at Thermopolis and Saratoga, where the water has a temperature of about 133° F.

Manufactures. The manufactures of Wyoming are not of very great importance, the number of establishments and the variety of industries being small. The leading industries (arranged in the order of value of products) are: the manufacture of cars and general shop construction by steam railroad companies, the manufacture of lumber and timber products, and flows and great will be added.

flour- and grist-mill products.

Education. The public schools are under the supervision of a state superintendent of public instruction, county superintendents and district boards. School attendance is compulsory for all children between the ages of seven and fourteen years. The schools are maintained by the proceeds of school taxes, and an annual income from school funds which are derived principally from public lands. At the head of the educational system is the University of Wyoming at Laramie. Teachers are trained in the normal school, which is carried on in connection with the University of Wyoming. Associated with the University is an agricultural college, a school of mines, a college of mechanical engineering, a school of commerce, a school of music, and a preparatory department.

Government. Wyoming is governed under its first constitution, adopted in 1889, and its amendments. Suffrage is conferred upon both males and females, and the right to vote is given to all citizens of the United States who have attained the age of twenty-one years, are able to read the constitution, and have resided in the state one year and in the county sixty days immediately preceding an election. Excluded from the suffrage are idiots, insane persons, and persons convicted of an infamous crime. Execu-The executive officers of the state are governor, secretary of state, auditor, treasurer, and superintendent of public instruction—all elected for a term of four years. There is no lieutenant-governor. The governor must be at least thirty years of age and have resided in the state for five years next preceding his election. If the office becomes vacant the secretary of state becomes acting governor. The governor, with the concurrence of the Senate, appoints the attorney-general, the state engineer and the members of the several boards and commissions. He has the power to veto bills, to pardon. to grant reprieves and commutations, and to remit fines and forfeitures; but the board of charities and reform constitutes a board of pardons for investigating all applications for executive clemency, and advising the governor with respect to them. LEGISLATIVE. The legislature consists of a Senate and House of Representa-The number of representatives must be not less than two nor more than three times the number of senators. Senators are elected for four years, one-half the number retiring every two years; representatives are elected for two years. Both senators and representatives are apportioned among the several counties according to their population; each county, however, is entitled to at least one senator and one representative. The legislature meets at Cheyenne biennially, on the second Tuesday in January

(odd number years), and the length of its session is limited to forty days. A two-thirds vote of the members elected to each house is required to override the governor's veto. JUDICIARY. The administration of justice in Wyoming is vested principally in a supreme court, district courts, justices of the peace, and municipal courts. The supreme court consists of three justices who are elected by the state at large for a term of three years, and the one having the shortest term to serve is chief justice. It holds two terms annually at the capital, one beginning the first Monday in April, and one beginning the first Monday in October. The state is divided into six judicial districts, and in each of these a district judge is elected for a term of six years. A justice of the peace is elected biennially in each precinct. Each incorporated city or town has a municipal court for the trial of offenses arising under its ordinance. Local Govern-MENT. A board of three commissioners has the care of the county property, manages the county business, builds and repairs the county buildings, apportions and orders the levying of taxes, and establishes the election precincts. The other county officers are a treasurer, a clerk, an attorney, a surveyor, a sheriff, a coroner, and a superintendent of schools, each elected for a term of two years. A justice of the peace and a constable are elected for and by each precinct. Cities and towns are incorporated under general laws.

History. Fort Laramie, near the mouth of the Laramie River, was established in 1834 to control the fur trade of the Arapahoes, Cheyennes, and Sioux. The United States exploring expedition, commanded by John C. Fremont, explored the Wind River Mountains and the South Pass in 1842. From this time the favorite route to the Pacific led through Wyoming, but the aridity of the land and the pronounced hostility of the Indians were not conducive to settlement. For the protection of emigrant trains the United States government built Fort Kearney in 1848, and purchased Fort Laramie in 1849. A Mormon settlement was made on the Green River in 1853. These Mormons afterwards retired to Salt Lake City. Indian hostilities were active from 1851 to 1868. Gold was discovered on the Sweetwater River in 1867, and population increased rapidly. The Territory of Wyoming, with its present boundaries, was organized in 1869. The state was admitted

to the Union in 1890.

POPULATION OF THE UNITED STATES

The thirteenth census of the United States was taken by the Bureau of the Census as of April 15, 1910. The total area enumerated includes continental United States, the territories of Alaska and Hawaii, and Porto Rico. The enumeration also includes persons stationed abroad in the military and naval service of the Government (including civilian employees, etc.), who were specially enumerated through the cooperation of the War and Navy Departments.

The following table gives the total population for the area enumerated in 1910. The corresponding census figures for 1900 are also given for purposes of comparison.

Area	1910	1900
The United States (total area of enumeration)	93,402,151	*77,256,630
Continental United States Noncontiguous territory	91,972,266 1,429,885	75,994,575 1,262,055
Alaska Hawaii Porto Rico	64,356 191,909 1,118,012	63,592 154,001 †953,243
Military and naval service sta- tioned abroad	55,608	91,219

*Includes 953,243 persons enumerated in Porto Rico in 1899. †According to the census of Porto Rico taken in 1899 under the direction of the War Department.

The rate of increase from 1900 to 1910 was 20.9 per cent. for the total area of enumeration and 21 per cent. for continental United States. It should be noted that this table does not cover all the outlying possessions of the United States. Including the population of the Philippines and other possessions, the population living under the American flag is approximately as follows:

Population of the United States and pos-

sessions	101,100,000
Enumerated at the census of 1910. Philippine Islands, 1903. Guam, estimated. Samoa, estimated Panama Canal Zone, estimated.	93,402,151 *7,635,426 9,000 6,100 50,000

The census of 1911 for Philippines gives 8,368,427. †The census of 1911 for Panama Canal Zone gives 154,255.

The population of continental United States is 91,972,266. Compared with the population of 75,994,575 in 1900 this represents an increase during the past decade of 15,977,691, or 21 per cent. The rate of increase was slightly greater than during the preceding decade, 1890–1900, when it was 20.7 per cent.

AREA AND POPULATION OF CONTINENTAL U.S. SINCE FIRST CENSUS

Census Year	Gross Area Square Miles	Popula- tion	Increase C	Adjusted per- centages Increase	
1910 1900 1890	3,026,789 3,026,789 3,026,789 3,026,789	75,994,575 62,947,714 50,155,783	Number 15,977,691 13,046,861 12,791,931 11,597,412	21.0 20.7 25.5 30.1	21.0 20.7 24.9 26.0
1870 1860 1850 1840 1830	3,026,789 3,026,789 2,997,119 1,792,223 1,792,223	38,558,371 31,443,321 23,191,876 17,069,453 12,866,020 9,638,453	8,251,445 6,122,423	22.6 35.6 35.9 32.7 33.5 33.1	26.6 35.6 35.9 32.7 33.5 33.1
1810 1800 1790	1,720,122 1,720,122 892,135 892,135	7,239,881 5,308,483 3,929,214	1,931,398 1,379,269	36.4 35.1	36.4 35.1

RANK OF TWENTY-FIVE LARGEST CITIES

	Population								
Cities	1910		T	1900	1890				
	-		-						
NT NT NT	П	1 700 00	, ,	3,437,202		2,507,414			
New York, N. Y Chicago, Ill	2	4,766,88 2,185,28		1,698,575	2				
Philadelphia, Pa	3	1,549,00			3	1,046,964			
St. Louis, Mo	1 4	687.029			4	451,770			
Boston, Mass	5	670,58				448,477			
Cleveland, O	6	560,66							
Baltimore, Md	7	558,48			6				
Pittsburgh, Pa	8	533,90			12				
Detroit, Mich	9	465,760							
Buffalo, N. Y	10	423,71	5 8	352,387	10				
San Francisco, Cal	11	416,912				298,997			
Milwaukee, Wis	12	373,85				204,468			
Cincinnati, O	13			325,902	8	296,908			
Newark, N. J	14					181,830			
New Orleans, La	15	339,073			11	242,039			
Washington, D. C	16								
Los Angeles, Cal	17	319,198							
Minneapolis, Minn	18		119	202,718		164,738			
Jersey City, N. J	19	267,779	117	206,433		163,003			
Kansas City, Mo	20	248,381				132,716			
Seattle, Wash	21	237,194							
Indianapolis, Ind	22 23	233,650				105,436			
Providence, R. I Louisville, Ky	24	224,326							
Rochester, N. Y	25								
Rochester, N. Y	23	210,145	124	1 102,008	41	133,890			

CITIES OF FASTEST GROWTH, 1900 TO 1910 Population Pr. ct. inc Rank. 1910 1900-1910 City 1910 Oklahoma City, Okla 64,205 Muskogee, Okla 25,278 Birmingham, Ala 132,685 Pasadena, Cal 30,291 Los Angeles, Cal 319,198 Berkeley, Cal 40,434 Flint, Mich 38,550 Seattle, Wash 237,194 Spokane, Wash 104,402 Fort Worth, Texas 73,312 Huntington, W. Va 31,161 El Paso, Tex 30,279 539.7 494.2 245.4 232.2 232.2 211.5 206.0 194.2 194.0 183.3 10. 174.7 161.4 Huntington, W. Va. 31,101 El Paso, Tex. 39,279 Tampa, Fla. 37,782 Schenectady, N. Y. 72,826 Portland, Ore. 207,214 Oakland, Cal. 150,174 San Diego, Cal. 39,578 Tacoma, Wash 83,743 Dallas, Tex. 92,104 Wichita Kan 52,450 138.5 129.9 129.9 129.2 124.3 123.6 15. 16. 17. 116.0 112.6 112.2 19. Wichita, Kan. 52,450 Waterloo, Iowa. 26,693 Jacksonville, Fla.... 57,699

AREA OF UNITED STATES

Accession	Gross area (sq. mi.)	Accession	Gross area (sq. mi.)		
CONTINENTAL U. S	3,026,789	OUTLYING POSSESSIONS	716,517		
Area of U.S. in 17901	892,135	Alaska, 1867	590,884		
Louisiana Pur., 1803	827,987	Hawaii, 1898	6,449		
Florida, 1819	58,666	Philippines, 1899.	115,026		
Territory gained by		Porto Rico, 1899	3,435		
Treaty with Spain,		Guam, 1899	210		
1819	13,435	Samoa, 1900	77		
Texas, 1845	389,166	Panama Canal			
Oregon, 1846	286,541	Zone, 1904	436		
Mex. Cession, 1848.	529,189				
Gadsden Pur., 1853.	29,670				

Includes the drainage basin of the Red River of the North, not a part of any acquisition, but previously considered a part of the Louisiana Purchase.

POPULATION OF STATES AND TERRITORIES

	1	Population		Den Crave	of Increase	}
STATES AND CAPITALS		2 OF CLATION		PER CENT	DENSITY PER SQ. MILE	
	1910	1900	1890	1900 to 1910	f 1890 to 1900	1910
AlabamaMontgomery ArizonaPhœnix	2,138,093	1,828,697	1,513,017	16.9	20.9	41.7
ArkansasLittle Rock	204,354	122,931 1,311,564	59,620 1,128,179	66.2	106.2	1.8
CaliforniaSacramento	2,377,549	1,485,053	1,203,130	60.1	22.4	30.0 15.3
Connecticut	1 799 024	539,700	412,198	48.0	30.9	7.7
DelawareDover	202,322	908,420 184,735	746,258 168,493	22.7	21.7	231.3 103.0
Delaware Dover Dist. of Columbia Florida Tallahassee	331,069	278,718 528,542	230,392	18.8	21.0	5,517.8
		528,542	391,422	42.4	35.0	13.7
IdahoBoise	325,594	2,216,331 161,772	1,837,353 84,385	17.7	20.6	44.4 3.9
Idaho. Boise. Illinois. Springfield. Indiana. Indianapolis.	5,638,591	4,821,550	3.826.351	16.9	26.0	100.6
Indiana	2,700,876 2,224,771	2,516,462	2,192,404 1,911,896	7.3	14.8	74.9
KansasTopeka	1,690,949	2,231,853 1,470,495	1,427,096	a0.3 15.0	16.7 3.0	40.0 20.7
KansasTopeka KentuckyFrankfort	2,289,905	2,147,174	1,858,635	6.6	15.5	57.0
LouisianaBaton Rouge	1,656,388 742,371	1,381,625 694,466	1,118,587	19.9 6.9	23.5	36.5
Maine Augusta Maryland Annapolis	1,295,346	1,188,044	1,042,390	9.0	14.0	24.8 130.3
MassachusettsBoston	3,366,416	2,805,346	2,238,943	20.0	25.3	418.8
MichiganLansing MinnesotaSt. Paul	2,810,173 2,075,708	2,420,982 1,751,394	2,093,889 1,301,826	16.1	15.6 34.5	48.9 25.7
MississippiJackson	1,797,114	1,551,270	1,289,600	15.8	20.3	38.8
Mississippi Jackson Jetferson City	3,293,335	3,106,665	2,679,184	6.0	16.0	47.9
MontanaHelena NebraskaLincoln	376,053 1,192,214	243,329 1,066,300	132,159 1,058,910	54.5 11.8	84.1 0.7	2.6 15.5
NevadaCarson City	81,875	42,335	45,761	93,4	a7.5	.7
Nevada	430,572	411,588	376,530	4.6	9.3	47.7
New JerseyTrenton New MexicoSanta Fe	2,537,167 327,301	1,883,669 195,310	1,444,933 153,593	34.7 67.6	30.4 27.2	337.7 2.7
New York Albany	9,113,614	7,268,894	5,997,853	25.4	21.2	191.2
North Carolina Kaleigh	2,206,287	1,893,810	1,617,947	16.5	17.1	45.3
North DakotaBismarck	577,056 4,76 7,121	319,146 4,157,545	182,719 3,672,316	80.8 14.7	74.7 13.2	8.2 117.0
Ohio	1,657,155	Ь 790,391	b 258,657	b109.7	b205.6	23.9
OregonSalem PennsylvaniaHarrisburg	672,765	413,536	313,767	62.7 21.6	31.8	7.0
Rhode IslandProvidence	7,665,111 542,610	6,302,115 428,556	5,258,014 345,506	26.6	19.9 24.0	171.0 508.5
South Carolina. Columbia.	1,515,400	1,340,316	1,151,149	13.1	16.4	49.7
South DakotaPierre TennesseeNashville	583,888 2,184,789	401,570 2,020,616	328,808 1,767,518	45.4 8.1	22.1	7.6 52.4
Tevas Austin	3,896,542	3,048,710	2,235,523	27.8	36.4	14.8
TexasAustinUtahSalt Lake City	373,351	276,749	207,905	34.9	33.1	4.5
VermontMontpelier	355,956	343,641	332,422 1,655,980	3.6 11.2	3.4 12.0	39.0 51.2
VirginiaRichmond	2,061,612 1,141,990	1,854,184 518,103	349,390	120.4	48.3	17.1
West Virginia. Charleston. Wisconsin. Madison. Wyoming. Cheyenne. Continental U. S.	1,221,119 2,333,860	958,800	762,794	27.4	25.7	50.8
Wisconsin	2,333,860	2,069,042 92,531	1,686,880 60,705	12.8 57.7	22.7 52.4	42.2 1.5
Continental U.S.	145,965 9 1,972,266	75,994,575	e62,622,250	21.0	20.7	
Alaska Juneau. Hawaii Honolulu	64,356	63,592	32,052	1.2	98.4	1 .1
HawaiiHonolulu	191,909 1,118,012	154,001 c 953,243	89,990	24.6	. 71.1	29.8 325.5
Porto RicoSan Juan Military and Naval	55,608	91,219				
U. S. including dependencies named						
O. D. Incidentel debondence	93,402,151	76,303,387	e 63,069,756	20.9	(d)	30.9

⁽a) Decrease. (b) For purposes of comparison the 1900 population figures of Oklahoma and Indian Territory are combined. (c) 1899. (d) In the last line of this table the 1900 and 1890 population figures do not include Porto Rico. (e) Includes population (325,464) of Indian Territory and Indian reservations specially numerated in 1890 but not included in the general report on population in 1890 (f) The percentages in this column are figured on the basis of the actual county totals in each state exclusive of Indian reservations.

NUMBER OF MALES OF VOTING AGE

The 1910 census for continental United States gives the males of voting age as 26,999,151, and constituting 29.4 per cent. of the entire population (91,972,266). They are divided as follows: Native whites of native parentage, 13,211,731, or 48.9 per cent.; negroes, 2,459,327, or 9.1 per cent.

POPULATION, 1910, BY SEX, RACE AND NATIVITY

	SE	×	RACE, NATIVITY, AND PARENTAGE					AGE				
STATE	Male	Female	Native white of native parentage	Native white of foreign parentage	Foreign white	Negro	Indian	Chinese	Japanese	All		
Alabama Arizona Arizona Arizona Arizona Arkansas California Connecticut Delaware Dist. of Col. Florida Georgia Idaho Illinois Indiana Lowa Kansas Kentucky Louisiana Mame Maryland Massachusetts Michigan Minnesota Minnesota Missouri Montana New Hampshire New Jersey New Mexico New York North Carolina North Dakota Ohio Oregon Oregon Coregon Cor	118,582 810,025 1,322,973 430,697 563,641 103,455 158,050 394,166 2,911,653 1,385,209 1,148,171 885,912 1,161,709 835,275 377,053 644,225 1,655,226 1,454,534 1,088,511 905,761 1,687,838 226,866 627,782 216,290 1,286,463 175,245 1,584,581 1,088,511 1,088,511 1,088,511 1,088,511 1,088,511 1,088,511 1,088,511 1,088,511 1,088,511 1,088,511 1,088,511 1,088,417 1,088,511 1,088,511 1,088,511 1,088,511 1,088,511 1,088,511 1,088,511 1,088,511 1,088,511	1,063,884 85,772 764,424 1,054,576 368,327 551,115 98,887 173,019 358,453 1,304,102 140,048 2,726,938 1,317,577 1,076,600 805,037 1,128,196 821,113 365,318 651,121 1,711,190 1,355,639 967,197 891,353 1,605,497 14,282 29,324 214,282 214,282 214,282 29,324 214,282	1,177,457 82,480 1,077,509 1,106,533 475,136 395,649 127,809 166,711 373,967 1,391,058 203,604 2,600,565 2,130,168 1,303,526 1,207,087 1,863,157 776,569 494,918 766,628 1,103,361 1,224,881 1,575,081 757,233 2,387,909 162,129 642,075 35,313 23,887,909 162,129 642,075 35,313 1,009,909 255,609 255,609 3,230,154 1,485,705 1,310,403 416,851 4,222,616 61,970 245,665 1,654,606 2,602,958 1,71,671 229,382 1,325,238	32,438 42,175 36,608 42,175 36,608 35,970 181,432 374,546 25,873 45,066 35,828 35,677 77,24,489 375,241 1,727,481 1,727,481 1,727,93 1,945,518,341 1,170,793 1,945,518,341 1,170,793 1,182,182 1,170,793 1,184,181 1,170,793 1,184,181 1,170,793 1,184,181 1,181,181 1,170,793 1,184,181 1,170,793 1,184,181 1,170,793 1,184,181 1,1	18,946 46,844 16,913 517,319 126,971 328,737 17,421 24,351 15,081 40,444 1,201,928 159,118 273,388 134,719 40,023 51,828 109,911 104,176 1,050,899 555,200 542,857 9,391 228,695 91,647 175,883 18,102 96,560 658,159 22,662 2,729,260 2,729,260 2,729,260 2,729,260 2,729,260 21,438,752 22,662 2,729,260 21,438,752 176,138 597,255 40,088 103,002 1,438,752 176,138 597,255 40,088 103,002 1,438,752 176,138 100,628 100,628 100,628 100,628 100,628 11,48,031 12,569 11,647 11,755	908,275 2,067 442,891 21,645 11,453 11,181 94,446 308,669 1,176,987 60,280 15,078 54,504 261,650 17,13,874 1,364 232,249 38,042 17,115 7,084 1,009,487 157,452 1,834 7,689 513 564 89,760 1,628 134,181 697,843 137,115 111,443 137,612 1,519 103,908 9,529 85,843 817 473,088 69,020 1,143 1,519 103,908 9,529 85,843 817 473,088 69,020 1,143 1,519 103,908 9,529 815,843 817 473,088 69,020 1,143 1,519 103,908 9,529 815,843 817 473,088 69,020 1,143 1,519 103,908 9,529 815,843 817 473,088 69,020 1,143 1,519 103,908 9,529 815,843 817 473,088 69,020 1,143 1,519 103,908 9,529 815,843 817 473,088 69,020 1,143 1,519 103,908 9,529 815,843 817 473,088 69,020 2,235	909 29,201 460 16,371 1,482 152 5 68 74 95 3,488 279 471 2,444 234 780 892 55 688 7,519 9,053 1,253 1,253 3,502 5,240 34 168 20,573 6,046 7,851 6,486 7,851 6,486 127 74,825 5,090 1,503 284 331 19,137 702 3,123 26 539 10,997 36 10,142 1,486	61 1,236 59 36,197 360 427 29 369 184 219 838 2,104 249 90 374 2,493 239 250 249 900 64 1,109 532 1,276 109 109 109 119 119 119 119 119 119 119	3 351 41,324 2,190 71 47 45 45 41,308 40 35 30 103 100 31 8 23 140 40 66 2 91 1,593 574 839 11,205 252 2,217 2 59 70 46 3,341 8 189 33 341 40 40 40 40 40 40 40 40 40 40 40 40 40	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Total	47,332,122	44,640,144	49,488,441	18,900,663	13,343,583	9,828,294	265,683	70,944	71,722	2,930		

GROWTH OF JEWISH POPULATION

According to a recent report of the Hebrew Sheltering and Immigrant Aid Society 1,496 of Jewish immigrants arriving at the port of New York in 1911 were on their way to points west of the Mississippi. It is to be observed, however, that no less than 475 gave their destination as Missouri—meaning, no doubt, chiedy St. Louis. The entire number of those who were going West, however, was only 4.25 per cent. of the total Jewish immigration of the year.

The Society has published a chart showing facts with regard to the Jewish population of 81 cities in 24 States. The growth

of population in ten years in these 81 cities varied from 100 to 200 per cent. The increase of Jewish population in that period was anywhere from 200 to 800 per cent. Sixty-one cities showed marked increase of Jewish residents, only 26 showed no notable

The table showed that while Duluth had gained 300 per cent., Atlanta 100 per cent., Sioux City 700 per cent., Seattle 400 per cent., Wichita, Kan., 500 per cent., Grand Forks, N. D., 800 per cent.; 'Portland, Ore, 200 per cent.; Richmond, Va., had gained only 30 per cent., and Charleston, S. C., only 50 per cent.







